

**Volume**

**#**

**R0400**

# CITRON CLOUD

BEST OF YOUR OWN BOOK

BOOK A-400

## INDEX DIAGRAM.

Township 20 South, Range 15 East

6	5	4	3	2	1
51					
7	6	8	9	10	11
55	54				12
18	53	17	16	15	14
52	61				13
19	50	20	21	22	23
59	68				24
20	11	29	3	27	35
10	12	13	24	20	34
31	45	32	47	39	37
28	27	25	24	23	22

# FIELD NOTES

OF THE SURVEY OF THE

Of the ..... Meridian,

In the State of .....

EXECUTED BY .....

In the capacity of U. S. Surveyor..... under instructions dated....., 191.....  
issued by the United States Surveyor General to govern surveys included in  
Group No. ...., which were approved by the Commissioner of the General Land  
Office, ...., 191....., pursuant to authority contained in the Act of  
Congress dated ..... 191.....

Survey commenced ..... , 191.....

Survey completed ..... , 191.....

## BOOK A-400

## INDEX DIAGRAM.

		Township	1 North	Range	8 West		
		104	105	106	107	108	108
206	6	278	5	262	4	262	3
271		271	276	262		251	243
207	7	275	8	260	9	260	10
274		274	273	260		250	241
208	18	271	17	258	16	249	15
271		271	270	258	✓	248	240
209	19	269	20	256	21	241	22
268		268	267	256		246	239
211	30	266	29	255	28	245	238
265		265	264	254		245	237
212	31	264	32	253	33	244	34
		68	69	69	✓	70	71
							72

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Survey completed \_\_\_\_\_, 191\_\_\_\_\_.

BOOK A-400

INDEX DIAGRAM.

Township 12 North Range 9 West

6	5	4	3	2	1
7	8	9	10	11	12
16	17	18	19	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
79	78	77	76	75	74

4-679

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Survey completed ..... , 191.....

BOOK A-400

## INDEX DIAGRAM.

Township 1 North Range 10 West

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
90	89	88	87	85	84

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Survey commenced ..... , 191.....

Survey completed ..... , 191.....

## BOOK A-400

## INDEX DIAGRAM.

Township 2 North. Range 8 West

113	114	115	116			
337 6	336 5	319 4	309 3		2	1
335	334	318	308	301 300		
338 7	333 8	311 0	301 10	299 11		12
332	331	317	307	297	298 299	
338 18	330 17	316 16	306 15	296 14		13
329	328	315	305	295	291 290	
326 19	318 20	311 21	304 22	295 23	290 24	
326	324	311	304	294		289
323 20	312 28	303 27	293 26	288 25		112
322	321	312	307	292	288	
320 22	310 23	301 24	292 25	287 26		111

Meanders west shore of St. Salt Lake -  
pages 339-343 incl.

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Office, ..... , 191 .

Survey commenced ..... , 191 .

Survey completed ..... , 191 .

BOOK A-400

## INDEX DIAGRAM.

Township 3 North Range 9 West

130	131	132						
129 6	103 5	388 4	315 3		2		1	
102	102	388	375					
128 7	100 14	387 8	314 9	364 10	11		12	
100	399	386	373	363				
127 18	397 17	385 16	312 15	363 14			13	
397	396	384	371	362				
126 19	398 20	382 21	310 22	361 23	356 24	2	18	
393	393	381	349	360	355			
125 30	392 29	380 28	317 27	359 26	354 25	2	17	
391	390	379	366	358	353			
124 31	389 32	378 33	365 34	356 35	352 36	2	16	
123	122	121	120					

Meander of the west shore of Great Salt Lake Pages 404-406 incl.

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Survey commenced ..... , 191.....

Survey completed ..... , 191.....

## BOOK A-400

## INDEX DIAGRAM.

Township 2 South Range 10 West			
153	154	155	156
157		159	
151 6	H 92 5	H 74 4	H 61 3
H 91	H 90	H 73	H 60
151 7	H 89 8	H 73 9	H 58 10
H 58	H 87	H 72	H 57
150 16	H 86 17	H 70 16	H 55 15
H 85	H 83	H 69	H 51
149 19	H 82 20	H 68 21	H 52 22
H 81	H 80	H 67	H 51
147 30	H 79 29	H 65 28	H 50 27
H 78	H 77	H 64	H 49
146 31	H 75 32	H 62 33	H 47 34
H 45	H 43	H 44	H 40
			135
			136

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Survey commenced ..... , 191.....

Survey completed ..... , 191.....

BOOK A-400

## INDEX DIAGRAM.

Township 1 South, Range 10 West

1 19 6	5	4	3	2	1	1 73
1 18 7	8	9	10	11	12	1 71
1 17 18	17	16	15	14	13	1 70
1 16 19	20	21	23	23	24	1 69
1 16 30	29	28	27	26	25	1 67
1 15 31	32	33	34	35	36	1 66

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Office, ..... , 191.....

Survey commenced ..... , 191.....

Survey completed ..... , 191.....

## BOOK A-400

## INDEX DIAGRAM.

*194 3rd sec.  
195 2nd sec.*  
Township 3 South, Range 6 W C of

193 194	6	5	4	3	2	1
191	7	8	9	10	11	12
190	18	17	16	15	14	13
189	19	20	21	22	23	24
187	30	29	28	27	26	25
185	31	32	33	34	35	36
	37	38	39	40	41	42

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Survey commenced....., 191....

Survey completed....., 191....

G.P.  
H.G.B.9/4/2  
M.H.C.M.

## FIELD NOTES

OF THE SURVEY

RETRACEMENT OF FOURTH STANDARD PARALLEL SOUTH, THROUGH RANGE 15 EAST

AND

SURVEY OF THE SUBDIVISION

O F

TOWNSHIP NO. 20 SOUTH, RANGE NO. 15 EAST

Of the SALT LAKE BASE AND Meridian,

In the State of U.T.A.H.

EXECUTED BY

ROBERT E. CLARK

In the capacity of U.S. Surveyor, under instructions dated June 10, 1912,  
 issued by the United States Surveyor General to govern surveys included in  
 Group No. 18, which were approved by the Commissioner of the General Land  
 Office, dated June 19, 1912, pursuant to authority contained in the Act of  
 Congress dated , 1912.

Survey commenced November 6, 1912

Survey completed November 18, 1912.

R.R. &amp; Co. Stn. P.M. 6-4-71

July 32-71-14

C.R. 08-18-99

BOOK A-400

INDEX DIAGRAM.

Township 20 South Range 15 East

6	42	5	1	8	2	4
40						
7	39	8	9	10	11	12
36	37					
18	36	17	16	15	14	13
34	34					
19	33	20	21	22	23	24
31	30					16
30	29	29	25	28	21	27
28	26		23		19	17
31	27	32	24	33	20	31
9		7	6	5	3	2

K-131

Re-establishment of 4th Standard Parallel S. through R. 15 E.

Chains	<p>Survey commenced Nov. 6, 1912 and executed with a Young and Sons light mountain transit No. 7147, fitted with a Smith solar attachment. The horizontal limb is provided with two double, opposite verniers, reading to single minutes, which is also the least count of the latitude and declinations arcs.</p> <p>Nov. 5, 1912, I examine the adjustments of my instrument and correct all errors. Then to test the adjustment of the solar apparatus by comparing its indications, resulting from observations made on the sun during a.m. and p.m. hours, with a meridian determined by observation on Polaris, I proceed as follows:</p> <p>Nov. 5, 1912: At my camp in Greenriver, Utah in sec. 9, Tp. 21 S., R. 16 E., in about lat. <math>39^{\circ}00'30''</math>N. and long. about <math>110^{\circ}10'30''</math>W. at 3h 30m p.m., l.m.t., with instrument set up over a point, which I later take as S. end of Polaris meridian, I set off <math>39^{\circ}00.5'</math>N. on the lat. arc; and <math>15^{\circ}45'</math>S. on the decl. arc; and determine a meridian with the solar. I mark the line thus determined by a tack driven in a wooden peg set firmly in the ground, 5.00 chs. N.</p> <p style="text-align: right;">Nov. 5, 1912.</p> <p>Nov. 6, 1912: With instrument occupying same position as last evening, at 4h 10m a.m., l.m.t., I commence following the westerly progress of Polaris, and when the star reaches its maximum position in azimuth, and begins to recede, I mark the line thus determined by a tack driven in a wooden peg set firmly in the ground about 5.00 chs. N.</p> <p>At 7h a.m., I lay off the azimuth of Polaris, <math>1^{\circ}29.3'</math> to the E. and mark the true meridian thus determined by a tack driven in the peg set yesterday evening.</p> <p>The Polaris meridian falls 0.2 ins. to the W. of the solar line.</p> <p>Nov. 6: At 8h 20m a.m.l.m.t., I set off <math>39^{\circ}00.5'</math>N. on the lat.arc; and <math>15^{\circ}57'</math>S. on the decl.arc; and determine a meridian with the solar. The line thus determined</p>
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Re-establishment of 4th Standard Parallel S. through R. 15 E.

Chains	<p>coincides with the Polaris meridian. I therefore conclude that the adjustments of my instrument are satisfactory.</p> <p>The mag. decl. is <math>16^{\circ}10'E.</math></p>
	Nov. 6, 1912.

A steel tape, 5 chains in length was used in the measurement of this line, together with clinometer for determining slope angles and only the reduced horizontal distances appear in the official notes.

The tape used was tested on Nov. 5, 1912, comparison being made with a standard tape, 66 ft. long, kept and used only for that purpose.

Nov. 6, 1912: I commence at cor. of Tp. 20 S., Rs. 15 and 16 E., described in notes of subdivision, and deflecting from solar line established at this point this morning, I run

W. along 4th Standard Parallel S., retracing S. bdy. of sec. 36, over gently rolling land, sloping SE., through scattering low undergrowth of shadscale and salt sage.

26.80 "90 foot Irrigation Ditch", course S.

40.37 Fall 15 lks. S. of old  $\frac{1}{4}$  sec. cor., which is a pine stake 2 ins. square, 14 ins. above ground, set loosely in the ground, mkd. S. on N., other marks obliterated; no accessories.

This falling answers to a bearing  $N.89^{\circ}47'W.$  for the 40.37 chs.

This post I replace with an iron post, 3 ft. long, 1 in. in diam., set 26 ins. in the ground, with brass cap mkd.

SC  
 $\frac{1}{4}$  S 36  
1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

I set over this cor. and continue W. along S. bdy. of sec. 36.

80.77 Fall 5 lks. S. of old S.C. of secs. 35 and 36, which is a sandstone, 10x10x4 ins. above ground, firmly set and mkd. with 1 groove on E. 5 grooves on W. and SC on N.; with a few stones around corner.

## Re-establishment of the 4th Standard Parallel S., through R. 15-E.

Chains

This falling answers to a bearing of N.  $89^{\circ}56'$  W., for 40.40 chs.

This old cor. I replace with an iron post, 3 ft. long, 3 ins. in diam., set 24 ins. in the ground, with brass cap, mkd.

SSC
T 20 S   R 15 E
S 35   S 36
1912

dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft., and N. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Land, gently rolling.

Soil, disintegrated shales of great depth; suited to cultivation if watered; affords little grazing.

No timber; undergrowth, low shadscale and salt sage. Instrument in transit at noon prevents lat. obsn. Nov. 6, 1912:

Nov. 7, deflecting from solar line carried up from the E., from the re-established cor. of secs. 35 and 36, I run W. along 4th Standard Parallel S., retracing S. bdy. of sec. 35.

Over rolling land, broken by numerous clay points and dry arroyos, draining SE., through scattering low undergrowth of shadscale and salt sage.

17.00 Dry arroyo, 20 ft. wide, 4ft. deep, course SE.

40.45 Fall 8 lks. S. of old S.  $\frac{1}{4}$  sec. cor., which is a cottonwood post, 4 ins. sq.,  $4\frac{1}{2}$  ft. long, set loosely in the ground, mkd. dimly on the N., marks not legible, with a small mound of stone N. of post.

This falling answers to a correction of N.  $89^{\circ}53'$  W., for 40.45 chs.

This old post I replace with an iron post, 3 ft. long, 1 in. in diam., set 26 ins. in the ground, with brass cap, mkd.

SC
$\frac{1}{4}$ S 35
1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

I set over this corner and continue W. along S. bdy. sec. 35.

## Chains

SC.32 Fall 1 lk. N. of old SC. of secs. 34 and 35, which is a sandstone, 16 x 12 x 10 ins. above ground, firmly set and mkd. with 2 grooves on E. and 4 grooves on W., with SC on N. face, with a small mound of stone N. of cor. This falling answers to a bearing of S.  $89^{\circ} 59'$  W. for 39.87 chs.

This old cor. I replace with an iron post, 3 ft. long, 3 ins. in diam., set 24 ins. in the ground, with brass cap, mkd.

SC.

T 20 S | R 15 E

S 34 | S 35

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Land, rolling mountainous, broken by many clay points and dry arroyos, draining SE.

Soil, disintegrated shales of great depth, suited to cultivation if watered; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

Nov. 7, 1912: At this point, I set off  $16^{\circ} 19.5'$  S. on the decl. arc, and at app. noon, observe the sun on the meridian. The resulting lat. is  $39^{\circ} 02'$  N.

Nov. 7, 1912.

Nov. 8, 1912: At 8h 50m a.m., l.m.t., I set off  $39^{\circ} 01.5'$  N. on the lat. arc, and  $16^{\circ} 54'$  S. on the decl. arc, and determine a meridian with the solar, at re-established cor. of secs. 34 and 35. Therice I run W. along 4th Standard Parallel S., retracing S. bdy. of sec. 34.

Over rolling mountainous land, broken by numerous clay points and dry arroyos, draining SE., through scattering low undergrowth of shadscale and salt sage.

SC.00 Dry arroyo, 30 ft. wide, course SE.

40.07 Fall 5 lks. S. of old S.  $\frac{1}{4}$  sec. cor., which is a sandstone, 12 x 8 x 4 ins. above ground, firmly set, mkd.  $\frac{1}{4}$  on N. face, with pits E. and W., and mound of earth S. of cor.

## Chains

This falling answers to a bearing of N.  $89^{\circ} 56'$  W., 40.07 chs.

This stone I replace with an iron post, 3 ft. long, 1 in. in diam., set 26 ins. in the ground, with brass cap, mkd.

SC  
1 S 34 ✓  
1912

dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

I set over this corner and continue W. along S. bdy. of sec. 34.

79.77. Intersect old S.C. of secs. 33 and 34, which is a sandstone, 12 x 4 x 10 ins. above ground, loosely set, mkd. with 3 grooves on E. and W. faces; no accessories.

This  $\frac{1}{2}$  mile is West 39.70. chs.

This stone I replace with an iron post, 3 ft. long, 3 ins. in diam., set 24 ins. in the ground, with brass cap, mkd.

SC  
T 20 S R 15 E  
S 33 S 34 ✓  
1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Corners stands on E. bank of arroyo, 30 ft. wide, course SE.

Land, rolling mountainous, broken by numerous clay points and dry arroyos, draining SE.

Soil, disintegrated shales of great depth, suited to cultivation if watered; affords little grazing.

No timber; undergrowth, low shadscale and salt sage. Instrument in transit at noon prevents lat. obsn.

Nov. 8, 1912.

Nov. 11, 1912: I set over the re-established S.C. of secs. 33 and 34, and deflect from solar line previously carried to this point from the E., and run

W. along 4th Standard Parallel S., retracing S. bdy. of sec. 33.

Over rolling mountainous land, broken by numerous clay points and dry arroyos, draining SE., through scattering low undergrowth of shadscale and salt sage.

## Chains

- 0.25 Center of dry arroyo, 30 ft. wide, course SE.
- 40.07 Fall 21 lks. S. of old S.  $\frac{1}{4}$  sec. cor., which is a pine post 4 ins. sq., 3 ft. long, set 18 ins. in the ground, mkd. SC  $\frac{1}{4}$  S 33 on N., mound of stone  $2\frac{1}{2}$  ft. base, 1 ft. high, N. of cor. This falling answers to a bearing of N.  $89^{\circ} 42'$  W., 40.07 chs. This post I replace with an iron post, 3 ft. long, 1 in. in diam., set 26 ins. in the ground, with brass cap, mkd.
- SC  
 $\frac{1}{4}$  S 33  
1912
- raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. I set over this re-established  $\frac{1}{4}$  sec. cor., and continue W. along S. bdy. of sec. 33.
- 80.07 Fall 7 lks. S. of old S.C. of secs. 32 and 33, which is a sandstone, 8 x 6 x 14 ins. above ground, loosely set, mkd. with 4 notches on W. and 2 notches on E. edge. This falling answers to a bearing of N.  $89^{\circ} 54'$  W., for a distance of 40.00 chs.
- This stone I replace with an iron post, 3 ft. long, 3 ins. in diam., set 24 ins. in the ground, with brass cap, mkd.
- SC  
T 20 S | R 15 E  
S 32 | S. 33  
1912
- dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. of post, 3 ft., and N. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Land, rolling mountainous, broken by clay points and dry arroyos, draining SE.
- Soil, disintegrated shales of great depth, suited to cultivation if watered; affords little grazing.
- No timber; undergrowth, low shadscale and salt sage.
- 
- Nov. 11, 1912: At app. noon, I set off  $17^{\circ} 28'$  S. on the decl. arc, and observe the sun on the meridian at the re-established S.C. of secs. 32 and 33. The resulting lat. is  $39^{\circ} 01.5'$  N.

Chains

Thence I run to . . . . .  
W. along 4th Standard Parallel S., retracing S. bdy.  
of sec. 32.

Over rolling mountainous land, across clay points and dry  
arroyos, draining SE., through scattering low undergrowth  
of shadscale and salt sage.

- . 20.00 Descend very gradually, gently rolling SW. slope.  
39.97 Fall 10 lks. S. of old S.  $\frac{1}{2}$  sec. cor., which is a  
cottonwood post, 4 x 3 ins.,  $2\frac{1}{2}$  ft. long, loosely set  
6 ins. in the ground, mkd. S 1 on W.,  $\frac{1}{2}$  S 2 on E., also  
a sandstone, 12 x 12 x 10 ins. above ground, firmly set  
and dimly marked on N. face; mound of stone, 3 ft. base,  
2 ft. high, N. of cor..

This falling answers to a bearing of N.  $89^{\circ} 51'$  W.,  
39.97 chs.

This post and stone I replace with an iron post, 3 ft. long,  
1 in. in diam., set 26 ins. in the ground, with brass  
cap, mkd.

SC  
 $\frac{1}{2}$  S 32  
1912

raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor.  
I set over this re-established cor., and continue W. along  
S. bdy. of sec. 32.

- 80.08 Fall 6 lks. N. of old S.C. of secs. 31 and 32, which is  
a sandstone, 12 x 7 x 6 ins. above ground, firmly set,  
marks obliterated; mound of earth, N. of stone.  
This falling answers to a bearing of S.  $89^{\circ} 55'$  W.,  
40.11 chs..

This stone I replace with an iron post, 3 ft. long, 3 ins.  
in diam., set 24 ins. in the ground, with brass cap, mkd.

SC  
T 20 S | R 15 E  
S 31 | S 32  
1912

dig pits, 24 x 18 x 12 ins., crosswise on each line, E.  
and W. of post, 3 ft. and N. of post, 7 ft. dist., and  
raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

## Chains

Land, gently rolling; SE. and SW. exposure.  
 Soil, disintegrated shales of great depth, suited to cultivation if watered; affords little grazing.  
 No timber; undergrowth, low shadscale and salt sage.

Nov. 11, 1912.

Nov. 18, 1912: I commence at re-established S.C. of secs. 31 and 32, and deflecting from solar line previously carried up to this point from the E. I run W. along 4th Standard Parallel S., retracing S. bdy. of sec. 31.

Over nearly level land, through scattering low undergrowth of shadscale and salt sage..

39.90 Fall 20 lks. N. of old S.  $\frac{1}{4}$  sec. cor., which is a sandstone, 12 x 8 x 6 ins. above ground, loosely set, mkd. SC  $\frac{1}{4}$  on N.; mound of earth S. of cor.  
 This falling answers to a bearing, of S.  $89^{\circ} 43'$  W., 39.90 chs.

This stone I replace with an iron post, 3 ft. long, 1 in. in diam., set 26 ins. in the ground, with brass cap, mkd.

SC  
 $\frac{1}{4}$  S 31

1912

dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

I set over this corner and continue W. along S. bdy. of sec. 31.

60.00 Enter broken clay points and dry arroyo, draining SW.

68.00 Thence over nearly level land.

83.70 Intersect old SW. cor. of Tp. 20 S. R. 15 E., which is a sandstone, 20 x 12 x 6 ins., above ground, firmly set, mkd. SC T 20 S on N., other marks obliterated; mound of stone, 2 x 2 ft. N. of cor., which is 2.10 chs. S. of the SE. cor. of Tp. 20 S. R. 14 E. This  $\frac{1}{2}$  mile eastward, 43.80 chs.

This stone I replace with an iron post, 3 ft. long, 3 ins. in diam., set 24 ins. in the ground, with brass cap, mkd.

Chains

SC  
T 20 S  
R 14 E | R 15 E  
S 36 | S 31  
1912

raise a mound of stone, 2 ft. base, 2 ft. high, NE. of cor.

Land, nearly level, with exception of some broken clay points bet. 60 and 68 chs.

Soil, disintegrated shales of great depth, suited to cultivation is watered; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

Nov. 18, 1912.

*Robert E. Clark*  
U. S. Transitman

J.M.E.

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**Page**

Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains

Survey commenced Nov. 6, 1912, and executed with a Young & Sons light mountain transit No. 7147. For description and test of instrument see notes of re-establishment of 4th Standard Parallel S., through R. 15.E.

A steel tape, 5 chs. in length, was used in the measurement of the subdivisional lines of this Tp., together with clinometer for determining slope angles, and only the reduced horizontal distances appear in the official notes. This tape was tested on Nov. 5, 1912, comparison being made with a standard tape, 66 ft. in length, kept and used only for that purpose.

Finding that only a portion of this Tp. could be subdivided, along the S. and W. boundaries, and finding the S. bdy. defective in measurement and very poor in alignment, I adopted the following method of subdivision:

Beginning at cor. of secs. 25, 30, 31 and 36, on E. bdy. of Tp., I ran W. on sectional correction line, setting 1/4 sec. and section corners at intervals of 40.00 chs.

From this sectional correction line I ran S. and set closing corners on the S. bdy. of the Tp. I adopted this method as it made all of the sections, except fractional sections against W.bdy. as nearly as possible rectangular and containing 640A., as required by law.

Prior to running the subdivisional lines I retrace the E. bdy. of sec. 36, as follows:

Nov. 6, 1912: I commence at the Standard cor. of Tp. 20 S., Rs. 15 and 16 E., in lat.  $39^{\circ}01'42''N.$ , and long.  $110^{\circ}12'04''W.$ , which is a sandstone, 10 x 10 x 8 ins. above ground, firmly set, properly mka., with a few stones around it.

Here at 9h.30m a.m., l.m.t., I set off  $39^{\circ}01.5'N.$  on the lat. arc, and  $15^{\circ}59.5'S.$  on the decl. arc, and determine a meridian with the polar.

Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains	<p>Thence I run N.<math>0^{\circ}23'E.</math>, retracing E. bdy. of sec. 36, and at 39.88 chs., fall 2 lks. W. of <math>\frac{1}{4}</math> sec. cor., bet. secs. 31 and 36, which is a sandstone 10 x 10 x 4 ins., above ground, firmly set and marked <math>\frac{1}{4}</math> on W. face; no accessories.</p> <p>This stone I replace with an iron post, 3 ft. long, 1 in. in diam., set 26 ins. in the ground, with brass cap, mkd.</p> <p style="text-align: center;"><math>\frac{1}{4}</math> S 36   S 31 1912</p> <p>raise a mound of stone, 2 ft. base, <math>1\frac{1}{2}</math> ft. high, W. of cor. This falling answers to a bearing of N.<math>0^{\circ}25'E.</math>, for a distance of 39.88 chs.</p> <p>I set over this corner and continue N.<math>0^{\circ}23'E.</math>, retracing E. bdy. of sec. 36, and at 39.86 chs. fall 15 lks. W. of cor. of secs. 25, 30, 31 and 36, which is a sandstone, 18 x 8 x 12 ins. above ground, firmly set and marked with 1 groove on S. and 5 grooves on N. face, with a few stones piled around corner.</p> <p>This stone I replace with an iron post, 3 ft. long, 3 ins. in diam., set 24 ins. in the ground, with brass cap mkd.</p> <p style="text-align: center;">T 20 S R 15 E   R 16 E S 25   S 30 S 36   S 31 1912</p> <p>raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. This falling answers to a bearing of N.<math>0^{\circ}36'E.</math>, for a distance of 39.86 chs.</p> <hr/> <p>Nov. 6, 1912: I commence at the cor. of secs. 25, 30, 31 and 36, on E. bdy. of Tp. and deflect from a solar line carried up from the S. this a.m. Thence I run West, non-sectional correction line bet. secs. 25 and 36. Over rolling clay hills, draining E. and NE., through scattering low undergrowth of shadscale and salt sage.</p> <p>10.70 "90-Foot Irrigation Ditch;" course SE. Ditch at time of survey is 3 ft. wide, 2 ft. deep, but work was commenced shortly afterward to enlarge it.</p>
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Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains

- 14.00 Dry arroyo, 20 ft. wide, 4 ft. deep, course NE.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.  
1 S 25  
S 36  
1912  
dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Ascend gradually.
- 49.30 Ridge, about 60 ft. above sec. cor. to E., bears NW. and S. Thence over rolling clay hills draining SE.
- 70.00 Dry arroyo, 12 ft. deep, 40 ft. wide, course SE.; ascend gradually broken SE. slope.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 25, 26, 35 and 36, with brass cap, mkd.  

T 20 S	R 15 E
S 26	S 25
S 35	S 36

  
1912  
dig pits, 18 x 18 x 12 ins. each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling mountainous; broken by sharp clay points and dry arroyos. General E. and SE. exposure.  
Soil, disintegrated shales of great depth, suited to cultivation on the gentler slopes, if watered; affords little grazing.  
No timber; undergrowth, low shadscale and salt sage.

Nov. 6, 1912: From cor. of secs. 25, 26, 35 and 36, deflecting from solar line carried up to this point from the E., I run

South on true line bet. secs. 35 and 36,

Ascending gradually over rolling clay hills, through scattering undergrowth of low shadscale and salt sage.

9.20 Dry arroyo, course SE.

14.00 Point, falls SE.

Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains

25.00 Dry arroyo, course SE.

Thence over gently rolling SE. slope.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

$\frac{1}{4}$   
S 35 | S 36  
1912

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft.  
dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.  
high, W. of cor.

79.46 Intersect 4th Standard Parallel S., 1.53 chs. S.  $89^{\circ}56' E.$   
of re-established S. C. of secs. 35 and 36.

At intersection

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in  
the ground, for closing cor. of secs. 35 and 36, with  
brass cap, mkd.

T 20 S | R 15 E  
S 35 | S 36  
GC  
1912

dig pits, 24 x 18 x 12 ins., crosswise on each line, E.  
and W., 3 ft., and N. of post, 7 ft. dist., and raise a  
mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Land, rolling mountainous; general SE. exposure.

Soil, disintegrated shales of great depth, suited to  
cultivation if watered; affords little grazing.

No timber; undergrowth, shadscale and salt sage.

Nov. 6, 1912.

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Nov. 19, 1912: At 9h 00m a.m., l.m.t., I set off  $39^{\circ}02.5'$   
N. on the lat. arc, and  $19^{\circ}27'S.$  on the decl. arc, and  
determine a meridian with the solar, at the cor. of secs.  
25, 26, 35 and 36. Thence I run

North, on sectional guide meridian, bet. secs. 25 and 26.  
Ascending gradually over rolling land, over numerous clay  
points and dry arroyos draining SE., through low under-  
growth of shadscale and salt sage.

38.40 Ridge, about 60 ft. above cor., bears NW. and SE.; descend.

## Survey of the Subdivision of Tp. 20 S., R. 15 E.

-5-

Chains

- 40.00 Wide hollow, drains SE.  
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

$\frac{1}{4}$	S 26	S 25
	1912	

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft.  
dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft.  
high, W. of cor.

- 55.00 Point, about .70 ft. above hollow; falls SE.; descend.  
63.40 Dry arroyo, course SE., about .40 ft. below point.  
Ascend gradually.  
73.00 Ascend more abruptly.  
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins.  
in the ground, for cor. of secs. 23, 24, 25 and 26, with  
brass cap, mkd.

T 20 S	R 15 E
S 23	S 24
S 26	S 25
1912	

raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor.  
Land, rolling and mountainous, on generally steep slopes  
of clay point and arroyos; SE. exposure.

Soil, disintegrated shales of great depth, suited to cul-  
tivation on gentler slopes, if watered; affords little  
grazing.

No timber; undergrowth, low shadscale and salt sage.

E. on random line bet. secs. 24 and 25.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.71 Intersect E. bdy. of Tp., 21 lks. S. of cor. of secs.  
19, 24, 25 and 30, which is a sandstone 10 x 8 x 8 ins.  
above ground, mkd. set and witnessed as described by  
Surveyor General.  
Thence I run  
S.89°51'W. on true line bet. secs. 24 and 25.  
Descending gradually over rolling land, through scattering  
low undergrowth of shadscale and salt sage, over gentle  
NW. slope.

Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains	
21.40	Dry arroyo, about 50 ft. below cor., course NW.; ascend gradually NE. slope.
38.70	Descend gradually NW. slope.
40.60	Small, dry gulch, course NE.; ascend gradually NE. slope.
40.71	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, mkd.
	<u><math>\frac{1}{4}</math> S 24</u> <u>S 25</u> 1912
	raise a mound of stone, $2\frac{1}{2}$ ft. base, 2 ft. high, N. of cor.
50.70	Low ridge, bears NW. and SE.; descend.
56.50	Dry arroyo, course SE.; ascend.
64.50	Point, about 60 ft. high, falls SE.; descend.
72.70	Dry arroyo, about 30 ft. below point, course SE.; ascend abruptly.
78.20	Top of point, about 125 ft. above arroyo, falls SE. Descend gradually.
80.71	The cor. of secs. 23, 24, 25 and 26. Land, mountainous on steep clay points and dry arroyos in W. 30 chs.; gently rolling in remainder of mile. E. $\frac{1}{2}$ general NE. exposure; W. $\frac{1}{2}$ general SE. exposure. Soil, disintegrated shales of great depth, too broken to permit of cultivation in W. 30 chs., remainder of mile suited to cultivation if watered; affords some grazing. No timber; undergrowth, low shadscale and salt sage. Instrument in transit at noon prevents lat. obsn.
	Nov. 19, 1912.

Nov. 7, 1912: From cor. of secs. 25, 26, 35 and 36, I deflect from solar line carried up from the E., and run W. on sectional correction line bet. secs. 26 and 35.  
Over rolling clay hills and arroyos, draining SE., through scattering low undergrowth of shadscale and salt sage.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

$\frac{1}{4}$  S 26  
S 35  
1912

dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft.

Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains

dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Ascend gradually.

42.00 Ridge, bears N. and SE.; descend W. slope.

66.00 Dry arroyo, course SE.; ascend gradually.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 26, 27, 34 and 35, with brass cap, mkd.

T 20 S	R 15 E
S 27	S 26
S 34	S 35
1912	

raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, rolling and broken by clay points and dry arroyos, draining SE. General S. and SE. exposure.

Soil, disintegrated shales of great depth, suited to cultivation on gentler slopes if watered; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

Instrument was in transit at noon, preventing lat. obsn.

Deflecting from a solar line carried up from the E. this p.m., I run

S. $0^{\circ}01'E.$  bet. secs. 34 and 35; over rolling clay hills draining SE., through scattering low undergrowth of shadscale and salt sage.

3.00 Dry arroyo, 20 ft. deep, 50 ft. wide, course SE.; ascend.

5.00 Low point, falls SE.; descend.

12.00 Dry arroyo, course SE.; ascend.

Thence over less broken land, draining SE.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

$\frac{1}{4}$	
S 34	S 35
1912	

dig pits,  $18 \times 18 \times 12$  ins., N. and S. of post, 3 ft. dist. and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains

- 79.52 Intersect 4th Standard Parallel S., 1.95 chs. N. $39^{\circ}59' E.$   
of re-established S. C. of secs. 34 and 35.  
At intersection  
Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in  
the ground, for closing cor. of secs. 34 and 35, with  
brass cap, mkd.

T 20 S | R 15 E  
S 34 | S 35  
CC  
1912

dig pits, 24 x 18 x 12 ins., crosswise on each line, E.  
and W. 3 ft. and N. of post, 7 ft. dist., and raise a  
mound of earth, 4 ft. base, 2 ft. high, N. of cor.  
Land, rolling mountainous, broken by clay points and dry  
arroyos, draining SE. in N. 12 chs.  
Gently rolling SE. slope in remainder of mile.  
General SE. exposure.  
Soil, disintegrated shales of great depth, suited to cul-  
tivation on gentler slopes if watered; affords little  
grazing.  
No timber; undergrowth, low shadscale and salt sage.

Nov. 7, 1912.

Nov. 8, 1912: At 3h p.m., l.m.t., I set off  $39^{\circ}02.5' N.$   
on the lat. arc, and  $16^{\circ}39'S.$  on the decl. arc, and deter-  
mine a meridian with the solar at cor. of secs. 26, 27,  
34 and 35. Thence I run  
W. on sectional correction line bet. secs. 27 and 34.  
Descending gradually over rolling clay hills with a gen-  
eral SE. drainage, through scattering low undergrowth of  
shadscale and salt sage.

- 22.00 Dry arroyo, course SE., about 30 ft. below cor.; ascend.  
30.50 Point, falls SE., about 50 ft. above arroyo; descend.  
35.60 Dry arroyo, course SE., about 60 ft. below point; ascend.  
38.70 Point, falls SE., about 60 ft. above arroyo; descend.  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in  
the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

## Survey of the subdivision of Tp. 20 S. R. 15 E.

## Chains

about 10 min.  $\frac{1}{4}$  S 27  
S 34

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

44.30 Dry arroyo, course SE., about 50 ft. below point; ascend.

60.00 Point, falls SE., about 100 ft. above arroyo; descend.

66.00 Dry arroyo, course SE., about 60 ft. below point; ascend.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 27, 28, 33 and 34, with brass cap, mkd.

T 20 S	R 15 E
S 28	S 27
S 33	S 34

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

This corner stands on low point falling SE.

Land, rolling, broken by numerous sharp clay points and dry arroyos.

Soil, disintegrated shales of great depth, suited to cultivation on gentler slopes if watered; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

At cor. of secs. 27, 28, 33 and 34, I deflect from a solar line previously carried up from the E., and run S.  $0^{\circ} 01'$  E. bet. secs. 33 and 34; descending over rolling mountainous land, broken by clay points and dry arroyos draining SE., through scattering low undergrowth of shadscale and salt sage.

17.00 Dry arroyo, course SE., about 60 ft. below cor.; ascend.

20.00 Point, falls SE., about 50 ft. above arroyo; descend.

27.00 Dry arroyo, course SE., about 70 ft. below point; ascend very gradually.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

$\frac{1}{4}$	
S 33	S 34

1912

## Survey of the subdivision of Tp. 20 S. R. 15 E.

Chains

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

52.00 Ridge, bears NW. and SE., about 50 ft. above arroyo. Descend gradually.

79.72 Intersect 4th Standard Parallel S., 1.69 chs. E. of re-established S.C. of secs. 33 and 34.

At intersection . . . . .

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 33 and 34, with brass cap, mkd.

T 20 S	R 15 E
S 33	S 34
C	C
1912	

dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W. 3 ft., and N. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Land, rolling mountainous, quite broken in N. 27 chs.; more gently rolling in remainder of milo.

General SE. exposure.

Soil, disintegrated shales of great depth, suited to cultivation on gentler slopes if watered; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

Nov. 8, 1912: At cor. of secs. 27, 28, 33 and 34, I deflect from solar line carried up to this point, and run N. 0° 01' W. bet. secs. 27 and 28; over mountainous land, draining SE., through scattering low undergrowth of shadscale and salt sage.

1.20 Descend NE. slope.

6.00 Wide hollow, course SE., about 50 ft. below cor.

Ascend gradually.

18.00 Ridge, bears NW. and SE., about 75 ft. above hollow.

Descend very gradually NE. slope.

Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains	
25.00	Descend more abruptly.
31.00	Dry arroyo, course SE., about 50 ft. below ridge. Ascend gradually.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, mkd.
	$\frac{1}{4}$ S 28   S 27 1912
	raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor.
44.00	Ascend abruptly S. slope.
55.00	Point on S. slope of adobe ridge, about 100 ft. above foot. Impossible to survey further on account of impassable sandstone cliffs.  Set an iron post, 3 ft. long, 1 ins. in diam., only 6 ins. in the ground, on account of underlying rock, surrounded by a mound of stone, 4 ft. base, 2 ft. high, for witness point, with brass cap, mkd. WP; raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.  Land, mountainous; general SE. exposure.  Soil, disintegrated shales of great depth, not suited to cultivation on account of steep slopes and rocks; affords little grazing.  No timber; undergrowth, low shadscale and salt sage.

Nov. 8, 1912.

Nov. 9, 1912: At 9h a.m., l.m.t., I set off  $39^{\circ}02.5'N.$   
on the lat. arc, and  $16^{\circ}52'S.$  on the decl. arc, and determine a meridian with the solar at cor. of secs. 27, 28,  
33 and 34. Thence I run  
W. on sectional correction line bet. secs. 28 and 33.  
Descending over mountainous land, over sharp clay points  
and arroyos draining SE., through scattering low under-  
growth of shadscale and salt sage.

8.00	Dry arroyo, course SE., about 40 ft. below cor.; ascend.
13.00	Point, falls SE., about 30 ft. above arroyo; descend.
19.00	Dry arroyo, course SE., about 60 ft. below point; ascend.

Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains	
25.00	Point, falls SE., about 30 ft. above arroyo; descend.
31.00	Dry arroyo, course SE., about 35 ft. below point; ascend.
35.60	Point, falls SE., about 20 ft. above arroyo; descend.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, mka.
	<u>T</u> S 28 S 33 1912
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
50.00	Dry arroyo, course SE., about 60 ft. below point; ascend.
60.00	Point, falls SE.; about 50 ft. above arroyo; descend.
62.00	Small, dry arroyo, course SE.; ascend.
68.00	Point, falls SE.; descend abruptly.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, with brass cap, mkd.

T 20 S	R 15 E
S 29	S 28
S 32	S 33
1912	

dig pits,  $18 \times 18 \times 12$  ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of corner. Corner stands in wide hollow draining SE.

Land, mountainous, broken by steep clay points with a general S. and SE. drainage.

Soil, disintegrated shales of great depth, not suited to cultivation on account of steep slopes; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

Nov. 12, 1912: At 8h 45m a.m., l.m.t., I set off  $39^{\circ}02.5'$  N. on the lat. arc, and  $17^{\circ}41'S.$  on the decl. arc, and determine a meridian with the solar, at cor. of secs. 28, 29, 32 and 33. Thence I run

S. $0^{\circ}02'E.$  bet. secs. 32 and 33; ascending gradually over mountainous land, through scattering low undergrowth of shadscale and salt sage, over numerous sharp clay points and dry arroyos, draining E. and NE.

## Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains	
26.80	Point, about 70 ft. above cor., falls SE.; descend abruptly.
33.30	Dry arroyo, about 80 ft. below point, course SE.; ascend abruptly.
38.00	Point, about 60 ft. above arroyo, falls SE.; descend abruptly.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, mkd.

$\frac{1}{4}$   
S 32 | S 33  
1912

dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

49.00	Dry arroyo, about 70 ft. below point, course SE. Thence over gently rolling land, sloping SE.
79.48	Intersect 4th Standard Parallel S., 1.98 chs. S. $89^{\circ}54' E.$ of re-established S. C. of secs. 32 and 33. At intersection,
	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 32 and 33, with brass cap, mkd.

T 20 S | R 15 E  
S 32 | S 33  
C.C.  
1912

dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W., 3 ft. and N. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Land, mountainous, broken by sharp clay points and dry arroyos, draining SE., and gently rolling SE. slope.

Soil, disintegrated shales of great depth, suited to cultivation on gentler slopes if watered; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

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At cor. of secs. 28, 29, 32 and 33, I deflect from solar line established this a.m., and run N.  $0^{\circ}02' W.$  bet. secs. 28 and 29.

Ascending out of wide hollow, over mountainous land,

Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains through scattering low undergrowth of shadscale and salt sage.

7.00 Point, about 60 ft. above cor., falls SE.

Ascend gradually over numerous sharp clay points and arroyos, draining E. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

$\frac{1}{4}$   
S 29 | S 28  
1912

Dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

57.00 Dry arroyo, course SE.; ascend abruptly.

60.70 Point, about 50 ft. above arroyo, falls SE.; descend.

70.00 Wide hollow, about 60 ft. below point, course SE.

Ascend abruptly over steep SW. slope.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, with brass cap, mkd.

T 20 S | R 15 E  
S 20 | S 21  
S 29 | S 28  
1912

Raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor. Land, mountainous on steep slopes of clay points and arroyos, with E. and SE. drainage.

Soil, disintegrated shales of great depth, too steep and broken for cultivation; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

Nov. 12, 1912.

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Nov. 9, 1912: At cor. of secs. 28, 29, 32 and 33, deflecting from solar line carried up to this point this a.m., I run

W. on sectional correction line bet. secs. 29 and 32.

Ascending over rolling clay hills, through scattering low undergrowth of shadscale and salt sage.

16.00 Point, about 70 ft. above cor., falls SE.; descend.

## Survey of the subdivision of Tp. 20 S. R. 15 E.

## Chains

- 24.00 Dry arroyo, about 50 ft. below point, course SE.; ascend gradually.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.
- $\frac{1}{4}$  S 29  
S 32  
1912
- dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- Ascend gradually over point falling E.
- 46.00 Top of point, about 30 ft. above arroyo, falls E.; descend.
- 48.00 Dry arroyo, about 20 ft. below point, course SE.; ascend.
- 55.90 Ridge, about 40 ft. above arroyo, bears NW. and SE.; descend.  
Nov. 9, 1912: Here at app. noon, I set off  $16^{\circ} 55'$  S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is  $39^{\circ} 02.5'$  N.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, with brass cap, mkd.
- T 20 S | R 15 E  
S 30 | S 29  
---+---  
S 31 | S 32  
1912
- dig pits, 18 x 18 x 12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- Land, broken mountainous on steep slopes of clay points and arroyos, with E. and SE. drainage.
- Soil, disintegrated shales of great depth, too broken to permite of cultivation; affords little grazing.
- No timber; undergrowth, low shadscale and salt sage.

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Nov. 14, 1912: At 8h 50m a.m., l.m.t., I set off  $39^{\circ} 02.5'$  N. on the lat. arc, and  $18^{\circ} 13'$  S. on the decl. arc, and determine a meridian with the solar, at cor. of secs. 29, 30, 31 and 32. Thence I run

S.  $0^{\circ} 03'$  E. bet. secs. 31 and 32; descending very gradually over gently rolling land, sloping SW., through scattering

## Survey of the subdivision of Tp. 20 S. R. 15 E.

## Chains

low undergrowth of shadscale and salt sage.

- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

$\frac{1}{2}$	S 31	S 32
	1912	

raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor.

- 79.42 Intersect 4th Standard Parallel S., 2.02 chs. N.  $89^{\circ} 55'$  E. of re-established cor. of secs. 31 and 32.

At intersection,

- Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 31 and 32, with brass cap, mkd.

T 20 S	R 15 E
S 31	S 32
C	C
1912	

dig pits, 24 x 18 x 12 ins., crosswise on each line, E. and W., 3 ft. and N. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Land, gently rolling, with SW. exposure.

Soil, disintegrated shales of great depth, suited to cultivation if watered; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

Nov. 9, 1912: At the cor. of secs. 29, 30, 31 and 32, I deflect from a solar line carried up to this point from the E. this p.m., and run sectional Corr. Line, W. on ~~true~~ line bet. secs. 30 and 31; ascending gradually over rolling clay hills, through scattering low undergrowth of shadscale and salt sage.

- 17.30 Ridge, about 60 ft. above cor., bears N. and S.; descend.

- 20.00 Descend very gradually W. slope.

- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

$\frac{1}{2}$	S 30
	S 31
1912	

dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft.

Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains	dist., and raise a mound of earth, $5\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.														
85.31	Intersect W. bdy. of Tp., 2.24 chs. S. of cor. of secs. 25, 30, 31 and 36, heretofore described. I change the markings on this cor., from a corner common to 4 to a corner common to 2 sections. At intersection, Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 30 and 31, with brass cap, mkd.														
	<table><tr><td>T 20 S</td><td></td></tr><tr><td>S 25</td><td>S 30</td></tr><tr><td><hr/></td><td></td></tr><tr><td>S 36</td><td>CC</td></tr><tr><td></td><td><hr/></td></tr><tr><td>R 14 E</td><td>R 15 E</td></tr><tr><td></td><td>1912</td></tr></table>	T 20 S		S 25	S 30	<hr/>		S 36	CC		<hr/>	R 14 E	R 15 E		1912
T 20 S															
S 25	S 30														
<hr/>															
S 36	CC														
	<hr/>														
R 14 E	R 15 E														
	1912														
	raise a mound of stone, $2\frac{1}{2}$ ft. base, 2 ft. high, E. of cor. Land, rolling; general W. exposure. Soil, disintegrated shales of great depth, suited to cultivation if watered; affords little grazing. No timber; undergrowth, low shadscale and salt sage.														
	Nov. 9, 1912.														

Nov. 14, 1912:	Deflecting from a solar line established this a.m., at cor. of secs. 29, 30, 31 and 32, I run N. $0^{\circ}03'W.$ bet. secs. 29 and 30.
	Ascending gradually over rolling land, SW. slope, through scattering low undergrowth of shadscale and salt sage.
20.00	Ridge, bears NW. and SE.; descend abruptly over more broken mountainous land.
35.00	Wide, dry arroyo, about 70 ft. below ridge, course SE. Ascend.
37.00	Low point, falls W.; descend.
39.00	Small, dry arroyo, course W.; ascend.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, mkd.

$\frac{1}{4}$	
S 30	S 29
	<hr/>
	1912

  
dig pits, 18 x 18 x 12 ins., N. and S. of post, 3 ft.

## Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains	dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Ascend gradually over broken SE. slope.
79.00	Ridge, bears N. $20^{\circ}$ E. and S. $20^{\circ}$ W.; descend.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, with brass cap, mkd.
	T 20 S   R 15 E S 19   S 20 S 30   S 29 1912
	dig pits, $18 \times 18 \times 12$ ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, gently rolling SW. slope in S. $\frac{1}{4}$ mile; N. $\frac{3}{4}$ mile, mountainous, on steep slopes of sharp clay points, with a general S. exposure.
	Soil, disintegrated shales of great depth, suited to cultivation on gentler slopes if watered; affords little grazing.
	No timber; undergrowth, low shadscale and salt sage.
	Nov. 14, 1912: Here at app. noon I set off $18^{\circ}16'S.$ on the decl. arc, and observe the sun on the meridian. The resulting lat. is $39^{\circ}03.5'N.$
	E. on random line bet. secs. 20 and 29...
40.00	Set temp. $\frac{1}{2}$ sec. cor.
80.02	Intersect N. and S. line 7 lks. S. of cor. of secs. 20, 21, 28 and 29. Thence I run
	S. $89^{\circ}57'W.$ on true line bet. secs. 20 and 29.
	Descending abruptly over mountainous land, over steep SW. slope, through scattering low undergrowth of shadscale and salt sage.
4.00	Foot of abrupt descend, bears NW. and SE. Thence across wide hollow.
14.00	Dry arroyo, about 70 ft. below cor., course SE.
	Ascend very gradually across hollow.
22.00	Ascend abruptly E. slope.
30.00	Ridge, about 40 ft. high, bears N. $20^{\circ}$ W. and S. $20^{\circ}$ E.
	Descend.

## Survey of the subdivision of Tp. 20 S. R. 15 E.

## Chains

37.00	Dry arroyo, about 40 ft. below ridge, course S. 20° E. Ascend abruptly.
38.40	Top of abrupt ascent. Thence over gradual S. slope, over numerous sharp clay points and dry arroyos, draining S.
40.01	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, mkd.
	$\frac{1}{4}$ S 20 ✓ S 29 1912
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
66.00	Dry arroyo, course S. 20° E.; ascend.
68.00	Low point, falls SE.; descend.
70.50	Dry arroyo, course SE.; ascend.
78.50	Ridge, bears N. 20° E. and S. 20° W.; descend abruptly.
80.02	The cor. of secs. 19, 20, 29 and 30.  Land, mountainous, broken by sharp clay points and dry arroyos, with a general S. exposure.  Soil, disintegrated shales of great depth, too broken for cultivation; affords little grazing.  No timber; undergrowth, low shadscale and salt sage.
W. on true line bet. secs. 19 and 30; descending gradually, over mountainous land, over numerous sharp clay points and dry arroyos draining W. and NW., through scattering low undergrowth of shadscale and salt sage.	
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, mkd.
	$\frac{1}{4}$ S 19 ✓ S 30 1912
	dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
64.00	Dry arroyo in bottom of wide hollow, course SW. Ascend very gradually.
72.00	Point, falls SW.; descend abruptly.

## Survey of the subdivision of Tp. 20 S. R. 15 E.

## Chains

- 75.00 Hollow, about 60 ft. below point, course SW.; ascend abruptly.
- 76.00 Point, about 80 ft. above hollow, falls SW.; descend abruptly.
- 85.08 Intersect W. bdy. of Tp. 2.22 chs. S. of cor. of secs. heretofore described.  
19, 24, 25 and 30, I change the markings on this post from a corner common to 4 to a corner common to 2 sections.

At intersection

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 19 and 30, with brass cap, mkd.

	T 20 S
S 24	CC
S 25	S 19
	S 30
R 14 E	R 15 E
1912	

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, E. of cor. Land, rolling mountainous; general W. and SW. exposure. Soil, disintegrated shales of great depth, suited to cultivation on gentler slopes if watered; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

Nov. 14, 1912.

Nov. 15, 1912: At 8h 40m a.m., l.m.t., I set off  $39^{\circ} 03.5'$  N. on the lat. arc, and  $18^{\circ} 28'$  S. on the decl. arc, and determine a meridian with the solar, at cor. of secs. 19, 20, 29 and 30. Thence I run

N.  $0^{\circ} 03'$  W. bet. secs. 19 and 20; descending gradually over mountainous land, over numerous sharp clay points and dry arroyos, draining NW., through scattering low undergrowth of shadscale and salt sage.

- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

$\frac{1}{4}$	
S 19	S 20
1912	

dig pits,  $18 \times 18 \times 12$  ins., N. and S. of post, 3 ft.

Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains	dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
50.00	Dry arroyo, course SW.; ascend.
57.40	Point, about 30 ft. above arroyo, falls SW.; descend gradually over broken NW. slope.
70.00	Thence over gradual W. slope.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 17, 18, 19 and 20, with brass cap, mkd.
	T 20 S   R 15 E S 18   S 17 S 19   S 20 1912
	dig pits, 18 x 18 x 12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, mountainous; general NW. and W. exposure.
	Soil, disintegrated shales of great depth, too broken to permit of cultivation; affords little grazing.
	No timber; undergrowth, low shadscale and salt sage.
	On account of impassable ledges whole line could not be surveyed; therefore I run
	E. on true line bet. secs. 17 and 20.
	Ascending gradually over rolling land, over gentle W. slope, through scattering low undergrowth of shadscale and salt sage.
3.00	Ascend abruptly steep W. slope.
5.00	Point, about 50 ft. above cor., falls SW.
	Ascend over numerous small, dry arroyos and rocky clay points, with SW. drainage.
	Point for $\frac{1}{4}$ sec. cor. will fall on steep W. slope among sandstone boulders and ledges; inaccessible on account of ledges. I therefore perpetuate this cor. as follows: At
37.47	Set an iron post, 3 ft. long, 1 in. in diam., only 18 ins. in the ground, on account of underlying rock, supported by a substantial mound of stone for witness to $\frac{1}{4}$ sec. cor., with brass cap, mkd.

WC  $\frac{1}{4}$  S 17  
S 20  
1912

Survey of the Subdivision of Tp. 20 S., R. 15 E.

Chains raise a mound of stone,  $2\frac{1}{2}$  ft. base, 2 ft. high, N. of cor. Land, mountainous; general SW. exposure. Soil, disintegrated shales of great depth, quite rocky; too rocky and broken to permit of cultivation; affords little grazing. No timber; undergrowth, low shadscale and salt sage.

From cor. of secs. 17, 18, 19 and 20, deflecting from solar line carried up to this point this a.m., I run W. on true line bet. secs. 18 and 19; descending gradually over mountainous land, through scattering low undergrowth of shadscale and salt sage.

- 24.00 Dry arroyo, course SW.; ascend.  
30.00 Point, about 40 ft. high, falls SW.; descend.  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap., mkd.

4 S 18

4 S 19

1912

- raise a mound of stone, 2 ft. base, 2 ft. high, N. of cor.  
46.00 Dry arroyo, course SW.; ascend.

- 53.60 Point, 60 ft. high, falls SW.; descend.  
57.20 Dry arroyo, course SW.; ascend abruptly.  
60.00 Point, about 50 ft. high, falls SW.; descend.  
63.00 Dry arroyo, course SW.; ascend.

- 65.00 Point, falls SW.; descend abruptly.  
70.00 Dry arroyo, about 80 ft. below point, course SW.; ascend.

- 84.89 Intersect W. bdy. of Tp. 1.94 chs. S. of cor. of secs. 13, 18, 19 and 24, heretofore described. I change the markings on this post from a corner common to 4 to a corner common to 2 sections.

At intersection,

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 18 and 19, with brass cap, mkd.

T 20 S	
S 13	CC.
S 24	S 18
	S 19
R 14 E	R 15 E
1912	

## Survey of the subdivision of Tp. 20 S. R. 15 E.

Chains

raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor.  
I do not raise the mound of stone E. of post, as it would fall on very steep E. slope of clay point, liable to slide.

Closing corner stands on top of clay point, about 70 ft. high, falling SW.

Land, mountainous, on steep slopes of sharp clay points and dry arroyos; general SW. exposure.

Soil, disintegrated shales of great depth, too broken for cultivation; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

Nov. 15, 1912: Here at app. noon, I set off  $18^{\circ} 32'$  S. on the decl. arc, and observe the sun on the meridian. The resulting lat. is  $39^{\circ} 04'$  N.

N.  $0^{\circ} 03'$  W. bet. secs. 17 and 18; over mountainous land, through scattering low undergrowth of shadscale and salt sage; SW. drainage.

- |       |  |
|-------|--|
| 4.40  | Low point, falls SW.; descend.   |
| 8.00  | Dry arroyo, about 30 ft. below point, course SW.; ascend.  |
| 13.00 | Point, about 50 ft. above arroyo, falls SW.; descend.  |
| 20.00 | Dry arroyo, about 50 ft. below point, course SW.; ascend abruptly.   |
| 35.00 | Ridge, about 80 ft. above arroyo, bears NE. and SW.; descend.  |
| 40.00 | Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap, mkd. |

$\frac{1}{4}$  S 18 S 17

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

- |       |   |
|-------|---|
| 41.00 | Dry arroyo, about 60 ft. below ridge, course SW.; ascend. |
| 53.70 | Low point, falls SW.; descend.                            |

60.00 Dry arroyo, course SW.; ascend abruptly.

67.00 Point, about 80 ft. above arroyo, falls SW.

Thence across W. and NW. slope.

- |       |  |
|-------|--|
| 80.00 | Set an iron post, 3 ft. long, 2 ins. in diam., only 16 ins. in the ground, on account of underlying rock, supported by a substantial mound of stone, for cor. of secs. 7, 8, |
|-------|--|

## Survey of the subdivision of Tp. 20 S. R. 15 E.

Chains

17 and 18, with brass cap, mkd.

T 20 S	R 15 E
S 7	S 8
S 18	S 17

1912

raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Land, mountainous; general SW. exposure.

Soil, disintegrated shales of great depth, quite rocky; too rocky and broken to permit of cultivation; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

Nov. 16, 1912: At 9h a.m., l.m.t., I set off  $39^{\circ} 05'$  N. on the lat. arc, and  $18^{\circ} 44'$  S. on the decl. arc, and determine a meridian with the solar, at cor. of secs.

7, 8, 17 and 18. Impassable ledges prevent running of entire mile, therefore I run N. and S. on true line bet. secs. 8 and 17; ascending abruptly over rolling land, W. slope, through scattering low undergrowth of shadscale and salt sage.

2.80 Edge of narrow mesa, about 40 ft. above cor., bears N. and S. Thence ascend gradually across rocky mesa.

Point for  $\frac{1}{2}$  sec. cor. will fall on very steep W. slope, inaccessible on account of impassable sandstone ledges.

36.00 Set an iron post, 3 ft. long, 1 in. in diam., only 10 ins. in the ground, on account of underlying rock, supported by a mound of stone, 4 ft. base, 2 ft. high, for witness to  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

WC  $\frac{1}{4}$  S 8  
S 17  
1912

40.00 raise a mound of stone, 3 ft. base, 2 ft. high, N. of cor. Point for  $\frac{1}{4}$  cor.; cor. not set. Impossible to survey further on this line on account of impassable sandstone ledges.

Land, rolling on gentle W. slope; surface, quite rocky.

Soil, disintegrated shales of great depth, too rocky to permit of cultivation; affords good grazing.

No timber; undergrowth, low shadscale and salt sage.

## Survey of the subdivision of Tp. 20 S. R. 15 E.

Chains

Nov. 15, 1912: From cor. of secs. 7, 8, 17 and 18, deflecting from solar line carried up from the S. this p.m., I run W. on true line bet. secs. 7 and 18; descending abruptly over mountainous land, through scattering low undergrowth of shadscale and salt sage.

18.00 Dry arroyo, about 90 ft. below cor., course SW.; ascend abruptly.

25.00 Point, about 100 ft. above arroyo, falls SW.; descend abruptly.

39.70 Dry arroyo, about 80 ft. below point, course SW.; ascend abruptly.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

$\frac{1}{4}$  S 7  
S 18

1912

dig pits, 18 x 18 x 12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

45.00 Point, about 60 ft. above arroyo, falls SW.; descend abruptly.

55.00 Dry arroyo, about 120 ft. below point, course SW.; ascend.

68.50 Point, about 60 ft. high, falls SW.; descend.

84.66 Intersect W. bdy. of Tp. 1.80 chs. S. of cor. of secs. heretofore described. 7, 12, 13 and 18, AI change the markings on this post, from a corner common to 4 to a corner common to 2 sections.

At intersection,

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for closing cor. of secs. 7 and 18, with brass cap, mkd.

T 20 S	
S 12	CC
S 13 S 7	
S 18	
R 14 E	R 15 E

1912

raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor. Land, mountainous, on steep slopes of clay points and dry arroyos; general SW. exposure.

## Survey of the subdivision of Tp. 20 S. R. 15 E.

Chairman

Soil, disintegrated shales of great depth, too rough and broken to permit of cultivation; affords little grazing. No timber; undergrowth, low shadscale and salt sage.

Nov. 15, 1912.

Nov. 16, 1912: From cor. of secs. 7, 8, 17 and 18, deflecting from solar line established at this cor. this a.m., I run N. 0° 03' W. bet. secs. 7 and 8; descending abruptly over mountainous land, through scattering low undergrowth of shadscale and salt sage.

- 8.30 Dry arroyo, about 80 ft. below cor., course W.; ascend.  
 20.00 Point, about 70 ft. above arroyo, falls SW.; descend.  
 30.00 Dry arroyo, about 90 ft. below point, course SW.; ascend.  
 38.00 Point, about 80 ft. above arroyo, falls SW.; descend.  
 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

$$\begin{array}{c|c} \frac{1}{4} \\ \text{S 7} & \text{S 8} \end{array}$$

1912

raise a mound of stone, 2 ft. base, 2 ft. high, W. of cor.

- 42.00 Dry arroyo, about 80 ft. below point, course W.; ascend.  
 47.00 Low point, falls W.; descend.  
 53.00 Dry arroyo, about 20 ft. below arroyo, course SW.; ascend.  
 60.00 Point, about 70 ft. above arroyo, falls SW.; descend.  
 65.50 Dry arroyo, about 80 ft. below point, course W.; ascend.  
 78.50 Point, about 125 ft. above arroyo, falls NW.; descend over N. slope.  
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for cor. of secs. 5, 6, 7 and 8, with brass cap, mkd.

$$\begin{array}{c|c} \text{T 20 S} & \text{R 15 E} \\ \text{S 6} & \text{S 5} \\ \hline \text{S 7} & \text{S 8} \end{array}$$

1912

raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

## Survey of the subdivision of Tp. 20 S. R. 15 E.

Chains

Land, mountainous on steep slopes of clay points and dry arroyos, with a SW. drainage; surface rocky.

Soil, disintegrated shales of great depth, too broken to permit of cultivation; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

Nov. 16, 1912: Here at app. noon I set off  $18^{\circ} 46.5'$  S. on the decl. arc, and observe the sun on the meridian.

The resulting lat. is  $39^{\circ} 06'$  N.

W. on true line bet. secs. 6 and 7; descending gradually over mountainous land, over broken SW. slope, through scattering low undergrowth of shadscale and salt sage.

5.00 Point, falls NW.; descend.

28.80 Point, falls NW.; descend abruptly.

34.00 Dry arroyo, about 150 ft. below sec. cor., course SW.

Ascend abruptly.

36.50 Point, about 40 ft. above arroyo, falls SW.; descend.

40.00 Dry arroyo, about 50 ft. below point, course SW.; ascend gradually.

Point for  $\frac{1}{4}$  sec. cor. falls in arroyo, where it would be liable to destruction from flood waters. I therefore perpetuate this cor. as follows; at

40.60 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for witness  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

WC  $\frac{1}{4}$  S 6  
S 7

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

44.20 Descend gradually.

51.30 Dry arroyo, course NW.; ascend.

55.00 Low point, falls NW.; descend.

60.00 Small, dry arroyo, course SW.; ascend abruptly.

63.00 Point, about 50 ft. above arroyo, falls NW.; descend.

77.40 Dry arroyo, about 60 ft. below point, course SW.; ascend.

83.00 Point, about 60 ft. above arroyo, falls SW.; descend.

84.40 Intersect W. bdy. of Tp. 1.62 chs. S. of cor. of secs. 1, 6, 7 and 12, ^ I change marks on this post, from a corner

## Survey of the subdivision of Tp. 20 S. R. 15 E.

Chains

common to 4 to a corner common to 2 sections.

At intersection,

Set an iron post, 3 ft. long, 2 in. in diam., 24 ins. in the ground, for closing cor. of secs. 6 and 7, with brass cap, mkd.

T 20 S	
S 1	CC
SS12	S 6
S 12	S 7
R 14 E	R 15 E
1912	

raise a mound of stone, 3 ft. base, 2 ft. high, E. of cor.

Land, mountainous, on steep slopes of sharp clay points and dry arroyos; general SW. exposure.

Soil, disintegrated shales of great depth, too broken to permit of cultivation; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

N. 0° 03' W. bet. secs. 5 and 6; descending abruptly over mountainous land, through scattering low undergrowth of shadscale and salt sage.

- 2.90 Dry arroyo, about 80 ft. below cor., course NW.; ascend abruptly.
- 15.00 Point, about 70 ft. above arroyo, falls W.; descend.
- 23.40 Dry arroyo, about 70 ft. below point, course W.; ascend abruptly.
- 28.00 Point, about 90 ft. above arroyo, falls W.; descend abruptly.
- 31.00 Dry arroyo, about 60 ft. below point, course W.; ascend abruptly.
- 39.00 Point, about 120 ft. above arroyo, falls W.; descend abruptly.
- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap, mkd.

S 6	S 5
1	2
1912	

raise a mound of stone, 3 ft. base, 2 ft. high, W. of cor.

Survey of the subdivision of Tp. 20 S. R. 15 E.

Chains

Impossible to survey further on this line on account of steep face of high ridge, broken by numerous high, impassable sandstone ledges.

Land, mountainous on steep slopes of sharp clay points and dry arroyos, draining W.

Surface quite rocky; general W. exposure.

Soil, disintegrated shales of great depth, quite rocky; too rocky and broken to permit of cultivation; affords little grazing.

No timber; undergrowth, low shadscale and salt sage.

Nov. 16, 1912.

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General Description.

The lands surveyed in this Tp. are generally rolling mountainous with a general SE. exposure in eastern portion and general SW. exposure in western portion of Tp.

The lands are generally badly washed and broken by numerous sharp clay or adobe points with steep slopes.

The soil is disintegrated shales of great depth, strongly impregnated with alkali, but will produce fair crops if watered, where it is not too rough and broken to permit of cultivation.

The land is covered with a scanty growth of low shadscale and salt sage undergrowth. There is very little grass.

The unsurveyed portion of the Tp. consists of very high, steep, adobe ridges, broken by high, impassable sandstone ledges, and deep, narrow, dry canons. This land is practically unsurveyable and totally worthless; supporting but a very scanty growth of vegetation, and being too rough even for grazing purposes.

There are no settlers in this Tp.

Geological formation: Cretaceous and Post Cretaceous.

*Robert E. Clark*  
U. S. Transitman.

---

M.H.M.

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## CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,  
Robert E. Clark, U. S. ~~Surveyor~~<sup>Transitman</sup>, during the periods and in the capacities  
stated opposite our several signatures, in surveying all those parts or portions of Tps. 22 and  
23 S. R. 13 E. and Tps. 205, R. 15 E.

of the Salt Lake Base and Meridian, in the State of Utah

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said Survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certifized to before me on the dates of the final service as shown above.

*Robert E. Clark.*  
U. S. Surveyor,  
Transition

FINAL OATH OF UNITED STATES SURVEYOR.

I, Robert E. Clark, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for Utah,  
bearing date of the tenth day of June, 1912, I have well, faithfully, and truly,  
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying  
Instructions, and the laws of the United States, surveyed all those parts or portions of North 3rd  
West 1/2ds and subdivision of T. 23 S. R. 13 E., East, West and North  
1/2ds and subdivision of T. 22 S. R. 13 E. and South and East  
1/2ds. and subdivision of T. 20 S. R. 15 E.

of the Salt Lake  
Base and Meridian, in the State of Utah, which are represented in  
in books B.D.E. and F., which are represented in  
the foregoing field notes as having been executed by me, and under my direction; and I do further  
solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance  
with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor  
General for Utah and in the specific manner described in the field notes, and that  
the foregoing are the original field notes of such survey.

*Robert E. Clark*  
U. S. Surveyor.  
Transitman

Subscribed by said *Robert E. Clark* and sworn to before me  
this 15th day of April, 1915.

Subscribed by said Robert E. Clark and  
sworn to before me this 7th. day of April  
D. C. 1915.

**SEAL** S. Oliland Clerk of the District

COUNTY

By *Robert E. Oliland*

Deputy Clerk.

*H. J. Dink*  
*Postmaster*

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 8, 1915.

The foregoing field notes of the survey of the Subdivisional lines of Township  
No. 20 South, Range 15 East of the Salt Lake Base and Meridian, Utah;  
and the retracement of the Fourth Standard Parallel South, through  
Range 15 East, of the Salt Lake Base and Meridian, Utah,

executed by Robert E. Clark

under ~~xx~~ special instructions dated June 10, 1912, having been  
critically examined, and the necessary corrections and explanations made to the said field notes, and the  
surveys they describe, are hereby approved.

*M. O. Hansen*  
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_  
has been correctly copied from the original notes on file in this office.

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Filed. Feb. 7, 1913,  
March 12, 1913, and  
April 11, 1913.J.W.E.  
E.R.  
H.E.W.

A.

# FIELD NOTES

OF THE SURVEY OF THE

RETRACEMENT OF THE SALT LAKE BASE LINE

THROUGH RANGE 8 WEST,

AND

SURVEY OF THE SALT LAKE BASE LINE

THROUGH

RANGES 9 AND 10 WEST,

Of the SALT LAKE Meridian,

In the State of U.T.A.H.

EXECUTED BY

JOHN R. STEWART

In the capacity of U.S. Surveyor, under instructions dated May 28, 1912,  
 issued by the United States Surveyor General to govern surveys included in  
 Group No. 17, which were approved by the Commissioner of the General Land  
 Office, June 7, 1912, pursuant to authority contained in the Act of  
 Congress dated , 1912.

Survey commenced June 5, 1912,

Survey completed August 2, 1912.

Sect. 28 (S) 1/2 N - 1/2 W 1st - 6-00-50

Secd. " " " 9 " - 6-00-00

Third. " " " 10 " - 6-00-00

BOOK A-400

## INDEX DIAGRAM.

Township 1 N., Range 8 W.

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

## Retracement Salt Lake Base Line; through Range 8 W.

## Chains

Survey commenced June 5, 1912, and executed with a W. and L. E. Gurley solar compass No. 101111; The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the lat. and decl. arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on May 5, 1912, M.L.T.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation, I proceed as follows: At the Base-line cor. of Tps. 1 N., Rs. 8 and 9 W., which is a sandstone, 8x6x6 ins., above ground, firmly set, and mld. and witnessed as described by the surveyor general, latitude 40° 46' 04" N., longitude 112° 48' 20" W., I set off 40° 46' N., on the lat.arc; 22° 37' N., on the decl.arc; and at 5 h 58 m p.m., l.m.t. I determine a meridian with the solar, and mark a point thereof on a stone, firmly set, in the ground, 5.00 chs. N. of the cor.

June 5, 1912.

June 6, 1912: At 2 h 34 m a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual and mark a point thereof on a wooden plug set in the ground, 5.00 chs. N. of the cor.

At 6 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris 1° 31' to the west and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.30 ins. east of the meridian established by the solar.

At 6 h 58 m a.m., l.m.t., I set off 40° 46' N., on the lat.arc; 22° 41' N., on the decl.arc; and determine a meridian with the solar, and mark a point thereof by a cross on the stone

## Retracement Salt Lake Base Line through Range 8 W.-Contd.

Chains already set 5.00 chs. S. of the cor.; this mark falls 0.27 ins. east of the meridian established by Polaris observations; the solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about 0'16" west and 0'14" east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h 30 m a.m., is N. 16°45'W.; the angle thus determined gives the mag. decl. 16°45'E.

From the above described cor. of T.s.1 S., R.s.8 and 9 W., I run East, on a retracement line along the Salt Lake Base line, through Range 8 W.

Over level land in Skull Valley; through dense sage brush and shadscales.

- 40.05 Fall 7 lks. S. of the  $\frac{1}{4}$  sec. cor., on S. bdy. sec. 31, which is a sandstone 5x7x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
- 50.50 Wagon road, bears N.50°W. and S.50°E.
- 60.40 Telephone line, bears N.60°W. and S.60°E.
- 64.00 Telegraph line bears N.60°W. and S.60°E.
- 65.90 Western Pacific Rail. Road track, bears N.60°W. and S.60°E.
- 71.00 Telegraph line, bears N.60°W. and S.60°E.
- 79.32 Fall 13 lks. S. of the closing cor. of secs. 5 and 6, T.1 S., R.8 W., which is a quartzite stone, 9x7x5 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
- 80.10 Fall 14 lks. S. of the base line cor. of secs. 31 and 32, which is sandstone, 6x6x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.  
The course of this line is therefore N.89°54'E., 80.10 chs.
- Land level .  
Soil, clay loam 2 ft. deep. Subsoil clay.

Retracement Salt Lake Base Line through Range 8 W.-Contd.

Chains	
	No timber.
	Undergrowth, shadscales, greasewood, and sage brush.
	No grass.
	East, on retracement line along S.bdy.sec.32.
	Over rolling land; through dense undergrowth.
1.60	County road, bears N.55°W. and S.55°E.
12.00	Begin ascent of ridge, bears N. and S.
22.50	Top of low ridge, known as the Hogs Back, 75 ft. above cor., bears N. and S.
	Desc.
29.00	Foot of descent, 80 ft. below ridge, bears N. and S.
	Enter valley.
30.00	Road, bears N. and S.
39.97	Fall 7 lks.S.of the $\frac{1}{4}$ sec.cor., on S.side sec.32, which is a quartzite stone, 10x7x5 ins., above ground, firmly set, and mkd and witnessed as described by the surveyor general.
80.00	Fall 14 lks.S.of the Base Line cor.of secs.32 and 33, which is a limestone 10x8x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The course of this mile is therefore N.89°54'E. 80.00 chs. Land, level and mountainous. Soil, clay from 1 to 4 ft. deep. Subsoil blue clay(salty) No timber.
	Undergrowth, shadscales and greasewood.
	No grass.
	Mountainous land or land covered with dense undergrowth,
80.00	chs.
	June 6, 1912: At this cor. I set off 22°41'N., on the decl. arc; and at 11 h 58 m a.m., l.m.t. I observe the sun on the meridian, the resulting lat. is 40°46' N., which is the proper lat. nearly.
	I found no trace of the closing cor.of secs.4 and 5.
	East, on a retracement line along S.side sec.33.

4

Retracement Salt Lake Base Line, through Range 8 W.-Contd.

Chains

Over level valley land; through dense undergrowth.

15.00 Leave undergrowth and enter alkali flat, bears N. and S.

40.05 Fall 7 lks. S. of the  $\frac{1}{4}$  sec.cor.on S.side sec.33, which is a quartzite stone, 8x8x5 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

79.26 Fall 15 lks. S. of the closing cor.of secs.4 and 5, T.1 S., R.8 W., which is a limestone, 5x6x5 ins., above ground, firmly set. and mkd. and witnessed as described by the surveyor general.

80.13 Fall 14 lks. S. of the Base Line cor.of secs.33 and 34, which is a quartzite stone, 8x10x4 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor General. The course of this line is therefore N.89°54'E.80.13 chs. Land, level.

Soil, clay loam 2nd and 3rd rate.

Subsoil blue clay(salty).

No timber

Undergrowth, shadscales and greasewood.

No grass

Land covered with dense undergrowth, 15.00 chs.

June 6., 1912.

June 7, 1912: At 6 h 59 m a.m., l.m.t., I set off 40°46'N., on the lat.arc; 22°47'N., on the decl.arc; and determine a meridian with the solar, at the Base line cor.of secs.33 and 34,

Thence I run

East, on a retracement line along S.bdy.sec.34.

Over level land; through scattering shadscales.

40.04 Fall 7 lks. S. of the  $\frac{1}{4}$  sec.cor.on S.bdy.sec.34, which is a quartzite 9x6x5 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

79.10 Fall 13 lks. S. of the Closing cor.of secs.2 and 3, T.1 S., R.8 W., which is a quartzite stone, 8x5x5 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor

## Retracement Salt Lake Base Line, through Range 8 W.-Contd.

- Chains  
general.
- ✓ 80.07 Fall 14 lks.S.of the Base Line Cor.of secs.34 and 35, which is a quartzite stone, 9x10x5 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general. The course of this mile is therefore N.89°54' E., 80.07 chs. Land, level.
- Soil, clay 3rd rate salty.
- Subsoil clay salty.
- No timber.
- Undergrowth, shadscales and greasewood.
- No grass.
- 
- East, on retracement line, along S.bdy.sec.35.
- Over level land; through scattering shadscales.
- 21.00 County road, bears N.30°W. and S.30°E.
- 40.04 Fall 17 lks.S.of  $\frac{1}{2}$  sec.cor.on S.bdy.sec.35., which is a quartzite stone, 7x7x5 ins.above ground, firmly set, and mkd.and witnessed as described by the surveyor general.
- 60.00 Leave undergrowth and enter alkali flat, bears N. and S.
- 78.86 Fall 14 lks.South of the closing cor.of secs.1 and 2, Tp.1 S., R.8 W., which is a limestone, 5 x8x6 ins.above ground, firmly set, and mkd.and witnessed as described by the surveyor general.
- 80.08 Fall 14 lks.S.of the Base line cor.of secs.35 and 36, which is a quartzite stone, 5x10x4 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general.
- The course of this mile is therefore N.89°54' N., 80.08 chs. Land, level.
- Soil, clay 4th rate .
- No timber.
- Undergrowth, shadscales. No grass.
- 
- East, on a retracement line along S.bdy.sec.36.

6

Retracement Salt Lake Base Line, through Range 8 W.-Continued.

Chains      Over level land; Alkali flats.

10.00      Enter dense shadscales, bears N. and S..

40.07      Fall 7 lks.S.of the  $\frac{1}{2}$  sec.cor.on S.side sec.36, which is a quartzite stone, 9x7x6 ins., above ground, firmly set, and mkd. and witnessed as desc. by the surveyor general.

54.00      Leave undergrowth, and enter alkali flat, bears N. and S.

78.91      Fall 13 lks.S.of the closing cor.of Tps.1 S., Rs.7 and 8 W., which which is a quartzite stone, 6x8x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

80.12      Fall 14 lks.E. of the Base cor.of Tps.1 N., Rs.7 and 8 W., which is a quartzite stone, 8x6x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

The course of this mile is therefore N. $89^{\circ}54'$ E., 80.12 chs. Land, level.

Soil, clay; 4th rate.

No timber. Undergrowth, shadscales. No grass.

June 7, 1912: At this cor. I set off  $22^{\circ}47'N.$ , on the decl.arc, and at 11 h 59 m a.m., l.m.t., I observe the sun on the meridian the resulting lat. is  $40^{\circ}46'N.$ , which is the proper lat. nearly.

June 7, 1912.

For general description see notes of the subdivision of T.1 N.R.8 W.

*John R. Stewart*  
U.S. Surveyor.

1

Salt Lake Base Line through Range 9 W.-Continued.

Chains Survey commenced July 8, 1912, and executed with a W. and L. E. Gurley solar compass; No. 101111. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs. The instrument was examined, tested on the meridian, at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on June 5, 1912.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m., hours with a meridian established by Polaris observation, I proceed as follows: At the Base Line cor. of Tps. 1 N., Rs. 8 and 9 W., heretofore described latitude  $40^{\circ}46'04''$  N., longitude  $112^{\circ}48'20''$  W., I set off  $40^{\circ}46'$  N., on the lat. arc;  $22^{\circ}27'$  N., on the decl. arc; and at 5 h 5 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

July 8, 1912.

July 9, 1912: At 0 h 25 m a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual, and mark a point thereof on a stone, firmly set, in the ground, 5.00 chs. N. of the cor.

At 6 h 30 m a.m., l.m.t. I lay off the azimuth of Polaris  $1^{\circ}31'$  to the west and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5. chs. N. of the cor.; this mark falls 0.38 ins. east of meridian established by the solar.

At 7 h 5 m a.m., l.m.t., I set off  $40^{\circ}46'$  N., on the lat. arc;  $22^{\circ}24'$  N., on the decl. arc; and mark the meridian determined by the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.31 ins. east of the meridian

2

Salt Lake Base Line, through Range 9 West. Continued.

- |                |  |
|----------------|--|
| Chains<br>Mile | <p>established by Polaris observations.</p> <p>The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about <math>0^{\circ}20'</math> west and <math>0^{\circ}16'</math> east of the meridian established by Polaris observation therefore I conclude that the adjustments of the instrument are satisfactory.</p> <p>The magnetic bearing of the meridien at 7 h 30 m a.m., is N.<math>16^{\circ}46'W.</math>, the angle thus determined gives the mag decl. <math>16^{\circ}46'E.</math></p> <hr/> <p>From the Base Line Cor. of Tps. 1 N., Rs. 8 and 9 W., I Run West, along south side sec. 36.</p> <p>Over level land; through dense undergrowth.</p> |
| 39.35          | <p>Fall 27 lks. N. of the old <math>\frac{1}{4}</math> sec. cor., which is a limestone, 10x10x8 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. I destroy this old cor.</p> <p>Difference between measurements of 40.00 chs., by two sets of chainmen is 2 lks.; position of middle point,</p> <p>By 1st set 39.99 chs.</p> <p>By 2nd set 40.01 chs.; the mean of which</p>   |
| 40.00          | <p>Set an iron post, 3 ft. long, 1 in dia., 26 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor.; with brass cap mkd.</p> <p><u>S 36</u><br/>1912.</p> <p>Dig pits, 18x18x12 ins. E. and W. of post. 3 ft. dist.; and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, N. of cor. ✓</p>  |
| 76.50          | <p>Sand ridge, 30 ft. high, bears NW. and SE.</p> <p>Difference between measurements of 80.00 chs., by two sets of chainmen, is 2 lks.; position of middle point,</p> <p>By 1st set 79.99 chs.</p> <p>By 2nd set 80.01 chs.; the mean of which is</p>  |
| 80.00          | <p>Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 35 and 36., with brass cap mkd.</p>  |

## Salt Lake Base Line, through Range 9 W.-Continued.

Chains

T 1 N	R 9 W
S 35'	S 36'

1912.

Dig pits, 24x18x12 ins. crosswise on each line S. and W., 5 ft. and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. 2 ft. high, N. of cor.

Land, level valley.

Soil, heavy clay loam; 3rd rate.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 80.00 chs.

West, on South side of sec. 35.

Over rolling valley land; through dense undergrowth.

5.00 Sand ridge, 30 ft. high, bears N. and S.

29.00 Road, bears NE and SW.

Difference between measurements of 40.00 chs., is 4 lks.  
position of middle point,

By 1st set 39.98 chs.

By 2nd set 40.02 chs.; the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

$\frac{1}{2}$   
S 35  
1912.

Dig pits, 18x18x12 ins. E and W. of post, 3 ft. dist.; and raise a mound of earth,  $5\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Difference between measurements of 80.00 chs. is 6 lks.  
position of middle point,

By 1st set 79.97 chs.

By 2nd set 80.03 chs.; the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for Base Line of secs. 34 and 35, with brass cap mkd.

T 1 N | R 9 W  
S 34' | S 35'  
1912.

4

Salt Lake Base Line through Range 9 West-Continued.

Chains

Dig pits, 24x18x12 ins. crosswise on each line E and W of post, 5 ft. and N of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. ✓  
Land rolling valley.

Soil, heavy clay; 5 ft. deep, 3rd rate.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land, covered with dense undergrowth, 80.00 chs.

West, on South side sec. 34.

Over rolling valley land; through dense undergrowth.

14.50 Road, bears N.5°W. and S.5°E.

Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st set 39.99 chs.

By 2nd set 40.01 chs.; the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on rock, and surrounded by mound of stone, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

$\frac{1}{4}$   
S. 34  
1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. ✓

43.50 Road, bears N.10°W. and S.10°E.

45.00 Leave valley and enter foot hills, bears N. and S.

Asc.

Difference between measurements of 80.00 chs., by two sets of chainmen, is 4 lks.; position of middle point,

By 1st set 79.98 chs.

By 2nd set 80.02 chs.; the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 16 ins. in the ground, on rock, and surrounded by mound of stone, for Base Line cor. of secs. 33 and 34, with brass cap mkd.

## Salt Lake Base Line, through Range 9 W.-Continued.

Chains

T 1 N	R 9 W
S 33'	S 34'

1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Land, rolling valley and rolling foot hills.

E.45.00 chs. clay loam about 3 ft. deep, good soil. West 35.00  
chs. is clay mixed with rock and gravel; 3rd rate.

No timber.

Undergrowth, shadscales and greasewood.

Good grass on West 35.00 chs.

Land covered with dense undergrowth, 80.00 chs.

July 9, 1912: At this cor. I set off  $22^{\circ}20'N.$ , on the decl.  
arc; and at 0 h 5 m p.m., l.m.t., I observe the sun on the  
meridian, the resulting lat. is  $40^{\circ}46'N.$ , which is the  
proper lat. nearly.

West, along south side sec.33,

Over rolling foot hills; through dense undergrowth.

Asc. gradually.

Difference between measurements of 40.00 chs., by two sets  
of chainmen, is 4 lks.; position of middle point,

By 1st set 39.98 chs.

By 2nd set 40.02 chs.; the mean of which is

40.00 Set an iron post, 3 ft <sup>long</sup><sub>1</sub> in. in dia., 26 ins. in the  
ground, for  $\frac{1}{2}$  sec.cor. with brass cap mkd.

S      33

1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

45.00 Wash, 60 lks. wide, 6 ft. deep. course N.  $60^{\circ}E.$

53.50 Road, bears N.  $20^{\circ}E.$  and S.  $40^{\circ}W.$

Difference between measurements of 80.00 chs.; by two sets  
of chainmen, is 4 lks.; position of middle point,

By 1st set, 79.98 chs.

By 2nd set 80.02 chs.; the mean of which is

## Salt Lake - Base Line through Range 9 West-Continued.

Chains

- 85.00 Set an iron post, 3 ft. long, 5 ins. in dia., 24 ins. in the ground, for Base Line Cor. of secs. 52 and 53, mkd. on brass cap

T 1 N R 9 W	
S 32	S 33

1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Land, Foot hills.

Soil, clay mixed with rock and gravel 12 ins. deep.

Subsoil, gravel.

No timber..

Undergrowth, shadscales.

Good grass for grazing.. . .

Land covered with dense undergrowth, 80.00 chs.

West on S. side of sec. 32.

Over mountainous land; through dense undergrowth.

Asc.

32.00 Top of ridge, 200 ft. above cor., bears NE and SW.

Desc.

37.00 Bottom of hollow, 60 ft. below ridge, course N. 60° E.

Asc.

38.00 Enter scattering timber, bears NE and SW.

Difference between measurements of 40.00 chs., by two sets of chainmen, is 4 Iks. position of middle point,

By 1st set 39.98 chs.

By 2nd set 40.02 chs.; the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for sec. cor. with brass cap mkd.

<u>S</u>	<u>32</u>
----------	-----------

1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

46.70 Top of ridge, 120 ft. above hollow, bears NE and SW.

Desc.

60.20 Bottom of hollow, 100 ft. below ridge, course N. 80° E.

7

Salt Lake Base Line, through Range 9 West. Continued.

Chains	
	Asc.
66.50	Top of ridge, 150 ft. above hollow; bears N. 70° E. and S. 70° W.
	Desc.
75.80	Bottom of hollow, 100 ft. below ridge, course N. 70° E.
	Asc.
	Difference between measurements of 80.00 chs., by two sets of chainmen, is 6 lks.; position of middle point,
	By 1st set 79.97 chs.
	By 2nd set 80.03 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for Base line cor. of secs. 31 and 32, with brass cap mkd.
	<u>T 1 N R 9 W</u> <u>S 31 / S 32</u>
	1912.
	And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Land, mountainous.
	Soil, clay mixed with rock, 3rd rate.
	Subsoil, gravel and rock.
	Timber, scrub cedar.
	Undergrowth, shadscales.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth,
	80.00 chs.
	West on south side sec. 31.
	Over mountainous land; through dense undergrowth and a few scattering cedars.
	Asc. steep slope of ridge.
36.00	Top of main ridge, 500 ft. above cor., bears N. and S.
	Desc.
	Difference between measurements of 40.00 chs. by two sets of chainmen, is 4 lks.; position of middle point,
	By 1st set 39.98 chs.
	By 2nd set 40.02 chs.; the mean of which is

## Salt Lake Base, through Range 9 W.-Continued.

Chains

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

S 31

1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

55.50 Enter heavy timber, bears N. and S.

Difference between measurements of 80.00 chs., by two sets of chainmen, is 8 lks.; position of middle point,

By 1st 79.96 chs.

By 2nd set 80.04 chs. the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of stone, for Base Line cor. of Tps., 1 N., R. 9 and 10 W., with brass cap mkd.

T 1 N	
R 10 W	R 9 W
S 36	<u>S 31</u>

1912.

From which

A cedar, 6 ins. dia., bears N. 6° E., 22 lks. dist.

mkd. T 1 N R 9 W S 31 B T.

A cedar, 5 ins. dia., bears N. 19° W., 18 lks.

dist.. mkd. T 1 N R 10 W S 36 B T.

Land, mountainous .

Soil, gravelly and rocky about 12 ins. deep.

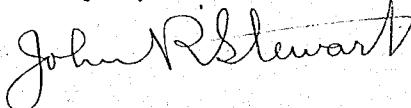
Timber, cedar.

Undergrowth, sage brush.

Good grass.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

July 9, 1912.



U.S. Surveyor.

Salt Lake Base Line, through Range 9 W.-Continued.

General Description.

The east 4 miles of this line is in level valley or low hills in Skull Valley; the soil is principally clay with some sand which is mostly in ridges and knolls. The soil is poor where this bdy. crosses, but further north in T.1 N., R.9 W., there is much excellent dry farm land and that township should be subdivided.

The western 2 miles are over mountainous land; covered with rock and considerable timber.

*John R. Stevens*

U.S. Surveyor.

July 9, 1912.

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**Page**

Salt Lake Base line, through Range 10 West.

Survey commenced July 30, 1912, and executed with a W. and L.E. Gurley light Solar compass No. 101111. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs. The instrument was examined, tested on the meridian, at Salt Lake City, found correct, and was approved by the surveyor general, of Utah, on June 5, 1912.

I examine the adjustments and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation; I proceed as follows:

At the Salt Lake Base cor. of Tps. 1 N., Rs. 9 and 10 W., heretofore described, latitude  $40^{\circ}46'04''$  N., longitude  $112^{\circ}55'09''$  W., I set off  $40^{\circ}46'N.$ , on the lat. arc;  $12^{\circ}26'W.$ , on the decl. arc; and at 5 h 6 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.;

At 10 h 59.0 m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual, and mark a point in the line thus determined, by a tack driven a wooden plug set in the ground, 5.00 chs. N. of the cor.

July 30, 1912.

July 31, 1912: At 6 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris  $1^{\circ}31'$  to the west, and mark a point in the meridian, thus determined, by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.30 ins. east of the meridian established by the solar. At 7 h 6 m a.m., l.m.t., I set off  $40^{\circ}46'N.$ , on the lat. arc; and  $18^{\circ}18'N.$ , on the decl. arc; and mark the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.38

## Salt Lake Base Line, through Range 10 W.-Continued.

Chains

in. East of the meridian determined by Polaris observation  
The solar apparatus by p.m., and a.m., observations, defines  
positions for meridians, respectively about 0'15" west and  
0'19" east of the meridian established by Polaris observation  
therefore I conclude that the adjustments of the instrument  
are satisfactory.

The magnetic bearing of the meridian at 7 h 50 m a.m., is  
N.16°47'W., the angle thus determined gives the mag.decl.  
15°47'E.;

From the Base Line cor.of Tps.1 N., Rs.9 and 10 W.

I run

west, on South side sec.36.

Over mountainous land; through dense sage brush and  
heavy cedar timber.

Desc.

3.20 Leave heavy and enter scattering timber, bears N. and S.

5.40 Bottom of hollow, 150 ft. below ~~edge~~, course S.

Asc.abruptly.

11.60 Enter broken limestone ledges, bears N. and S.

27.00 Rocky ridge, 400 ft. above hollow, bears N. and S.

Desc.abruptly over broken ledges.

39.90 Ledge, 30 ft. high, bears NW and SE.

Difference between measurements of 40.00 chs. by two sets  
of chainmen, is 4 lks. position of middle point,

By 1st set 39.98 chs.

By 2nd set 40.02 chs.; the mean of which is

40.00 Falls on sloping ledge; cannot be set; therefore at

40.30 Set on iron post, 3 ft. long, 1 in. in dia., 14 ins. in the  
ground, on rock, and surrounded by mound of stone, for  
without cor.to 1 sec.cor.with brass cap md.

T 1 N R 10 W.  
S 36  
S C

1912.

Salt Lake Base Line, through Range 10 West.-Continued.

Chains	From which
	A cedar, 6 ins. dia., bears N.57°W., 28 lks. dist. mkd. T 1 N R 10 W S 36 B T.
	And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
56.00	Ledge, 60 ft. high, bears N.60°E. and S.60°W.
76.00	Leave ledges, bears N. and S. Difference between measurements of 80.00 chs., by two sets of chainmen, is 6 lks.; position of middle point, By 1st set 79.97 chs. By 2nd set 80.03 chs.; the mean of which is
80.00	Point 1500ft. below ridge. Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground, on rock, and surrounded by mound of stone, for cor. of secs. 35 and 36, with brass cap mkd.
	T 1 N R 10 W S 35   S 36 1912.
	From which
	A cedar, 5 ins. dia., bears N.32°E., 135 lks. dist.. mkd. T 1 N R 10 W S 36 B T.
	A cedar, 4 ins. dia., bears N.73°W., 166 lks. dist.. mkd. T 1 N R 10 W S 35 B T.
	Land, very rough and steep mountains. Soil rocky; 3rd rate. Timber, cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	July 31, 1912: At this cor. I set off 18°14'N., on the decl. arc; and at 0 h 6 m p.m., 1.m.t., I observe the sun on the meridian, the resulting lat. is 40°46'N., which is the proper lat. nearly.
	West, on south side sec. 35.

4

Salt Lake Pass Line, through Range 10 West.-Continued.

Chains

Over mountainous land; through dense undergrowth and scattering timber.

Desc.

15.30 Limestone ledge, 50 ft. high, bears N. and S.

17.50 Foot of mountain, 300 ft. below cor., bears N. and S.

Thence gradually descend over rolling bench country.

Leave timber, bears N. and S.

30.90 Wash, 15 lks. wide, 4 ft. deep, course N. 20° W.

33.50 Wash, 40 lks. wide, 3 ft. deep, course N. 50° W.

Difference between measurements of 40.00 chs., by two sets of chainmen, is 2 lks.; position of middle point.

By 1st set 39.98 chs.

By 2nd set 40.01 chs.; the mean of which is

40.00 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for sec. cor. with brass cap mkd

S 35

1912.

Dig pit, 18x18x12 ins. E. and W. of post, 3 ft. dist. and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

46.75 Road, bears N. 10° W. and S. 10° E.

51.20 Wash, 150 lks. wide, 20 ft. deep, course N. 20° W.

Difference between measurements of 80.00 chs., by two sets of chainmen, is 2 lks.; position of middle point

By 1st set, 79.99 chs.

By 2nd set 80.01 chs.; the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secn. 34 and 35, with brass cap mkd.

T 1 N R 10 W	
S 34	S 35

1912.

Dig pit, 24x18x12 ins., crosswise on each line E. and W., 5 ft.; and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Land, mountainous and rolling bench

Soil, gravelly on mountain and hard and clay loam on bench.

Subsoil, clay and gravel.

## Salt Lake Base Line, through Range 10 W.-Continued.

Chains

Timber, cedar .

Undergrowth, shadscales and sage brush.

Good grass for grazing.

July 31, 1912.

August 2, 1912: At 7 h 6 m a.m., l.m.t., I set off  $40^{\circ}46'N.$ , on the lat.arc;  $17^{\circ}50'W.$ , on the decl.arc; and determine a meridian with the solar, at the cor.of secs.34 and 35.

Thence I run

West, along S.side sec.34.

Over rolling bench land; through dense shadscales and sage brush .

Desc.gradually.

19.25 Road, bears N. $10^{\circ}E.$  and S. $10^{\circ}W.$ 30.15 Western Union Telegraph ~~telegraph~~ line, bears N. $38^{\circ}20'E.$  and S. $38^{\circ}20'W.$ 30.97 South rail on the Western Pacific Railway track, bears N. $38^{\circ}20'E.$  and S. $38^{\circ}20'W.$ 33.10 Telegraph line, bears N. $38^{\circ}20'E.$  and S. $38^{\circ}20'W.$ 

Difference between measurements of 40.00 chs., by two sets of chainmen, is 2 lks.; position of middle point,

By 1st set, 39.99 chs.

By 2nd set 40.01 chs.; the mean of which is

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{2}$  sec.cor.with brass cap mkd.

S    34

1912.

Dig pits,  $18 \times 18 \times 12$  ins. E.and W.of post, 3 ft.dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.50.50 Swale, 5.00 chs.wide, 40 ft.deep, course N. $10^{\circ}W.$ 

Asc.

Difference between measurements of 80.00 chs., by two sets of chainmen, is 4 lks.; position of middle point,

## Salt Lake Base, through Range 10 West.-continued.

CHAINS

By 1st set 79.98 chs.

By 2nd set 80.02 chs.; the mean of which is  
 80.00 cSet an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the  
 ground, for cor. of secs. 33 and 34, with brass cap mkd.

T 1 N	E 10 W
S 33	S 34 ✓

1912.

Dig pits, 24x18x12 ins., E. and W. 3 ft. and N. of post, 7 ft. dist.;  
 and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.  
 Land, rolling bench.

Soil, clay and sandy loam; 2nd rate about 3 ft. deep.

Subsoil, gravel and clay.

No timber.

Undergrowth, shadscales and sage brush.

Good grass.

Land covered with dense undergrowth, 80.00 chs.

West, on S. side of sec. 33.

Over rolling bench land; through dense undergrowth.

8.90 Road, bears N.E. and S.W.

19.20 Road, bears N.30°E. and S.30°W.

Difference between measurements of 40.00 chs., by two sets  
 of chainmen, is 4 lks.; position of middle point,

By 1st set 39.98 chs.

By 2nd set 40.02 chs.; the mean of which is  
 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the  
 ground, for 1 sec. cor. with brass cap mkd.

S 33
1912.

Dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist. and raise  
 a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

52.37 Telephone line from Low to Wendover, bears N.61°30' E. and  
 S.61°30' W.

Difference between measurements of 80.00 chs. by two sets  
 of chainmen, is 4 lks.; position of middle point,

## Salt Lake Base Line-through Range 10 West-Continued.

- Chains                    By 1st set, 79.98 chs.  
                           By 2nd set, 80.02 chs.; the mean of which is  
 80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the  
         ground, for cor. of secs. 32 and 33, with brass cap mkd.  
 T 1 N | R 10 W  
 S 32 | S 33 ✓  
 1912.  
 And dig pits, 24x18x12 ins., crosswise on each line, E. and W.  
 3 ft. and N. of post, 7 ft. dist.; and raise a mound of earth,  
 4 ft. base,  $\frac{1}{2}$  ft. high, N. of cor.  
 Land, rolling bench.  
 Soil, sandy and clay loam; 2nd rate. about 2 ft. deep.  
 Subsoil, gravel and clay.  
 No timber.  
 Undergrowth, sage brush and shadscales.  
 Good grass for grazing.  
 August 2, 1912: At this cor. I set off  $17^{\circ}44'N.$ , on the decl.  
 arc; and at 0 h 6 m p.m., l.m.t., I observe the sun on the  
 meridian, the resulting lat. is  $40^{\circ}46'N.$ , which is the  
 proper lat. nearly.  
 West, on south side sec. 32.  
 Over rolling bench land; through dense undergrowth.  
 Difference between measurements of 40.00 chs. by two sets of  
 chainmen, is 2 lks.; position of middle point,  
 By 1st set, 39.99 chs.  
 By 2nd set 40.01 chs.; the mean of which is  
 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the  
         ground, for sec. cor. with brass cap mkd.  
 S 32  
 1912.  
 Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and  
 raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
 Difference between measurements of 80.00 chs.; by two sets

Salt Lake Base ,through Range 10 West,Continued.

Chains

of chainmen, is 6 lks.; position of middle point,

By 1st set, 79.97 chs.;

By 2nd set, 80.03 chs.; the mean of which is

- 80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 31 and 32, with brass cap mkd.

T 1 N	R 10 W
S 31	S 32

1912.

Dig pits, 24x18x12 ins., crosswise on each line, E and W. 5 ft. and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Land, rolling bench.

Soil, clay loam with some gravelly streaks.

Subsoil, clay and gravel.

No timber.

Undergrowth, shadscales and sage brush.

Good grass.

Land covered with dense undergrowth, 80.00 chs.

West, on S. side sec. 31.

Over rolling bench land; through dense undergrowth.

- 13.10 Road, bears N. 30° W. and S. 30° E.

- 13.20 Top of ridge, 50 ft. above cor., bears N. and S.

- 28.60 Wash, 80 lks. wide, 10 ft. deep, course S. 25° W.

- 30.45 Wash, 20 lks. wide, 7 ft. deep, course S. 15° W.

Difference between measurements of 40.00 chs., by two sets of chainmen, is 4 lks.; position of middle point,

By 1st set, 39.98 chs.

By 2nd set 40.02 chs.; the mean of which is

- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

S 31

1912.

Dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist.;

## Salt Lake Base Line, through Range 10 W.-Continued.

Chains	and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Difference between measurements of 80.00 chs., by two sets of chainmen, is 6 lks.; position of middle point,						
	By 1st set, 79.97 chs.						
80.00	By 2nd set 80.03 chs.; the mean of which is Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for Base Line Cor. of Tps. 1 N., Rs. 10 and 11 W., with brass cap mkd.  <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">T 1 N</td> <td></td> </tr> <tr> <td style="text-align: center;">R 11 W</td> <td style="text-align: center;">R 10 W</td> </tr> <tr> <td style="text-align: center;"><u>S 36</u></td> <td style="text-align: center;"><u>S 31</u></td> </tr> </table> 1912. Dig pits, $24 \times 18 \times 12$ ins., crosswise on each line E. and W. 3 ft. and N. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, $2\frac{1}{2}$ ft. high, N. of cor. Land, rolling bench. Soil, clay loam and gravelly 2nd rate. Subsoil, gravelly. No timber. Undergrowth, shadscales. Good grass. Land covered with dense undergrowth, 80.00 chs.	T 1 N		R 11 W	R 10 W	<u>S 36</u>	<u>S 31</u>
T 1 N							
R 11 W	R 10 W						
<u>S 36</u>	<u>S 31</u>						

August 3, 1912.

John R Stewart  
U.S. Surveyor.

For general description see notes of Sub.T.1 S., R. 10 W.

John R Stewart  
U. S. Surveyor.

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**Page**

## **CERTIFICATE OF ASSISTANTS.**

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,  
\_\_\_\_\_, U. S. Surveyor, during the periods and in the capacities  
stated opposite our several signatures, in surveying all those parts or portions of \_\_\_\_\_.

For certificate of assistants see book "L" T. S. S., R. 6 W.

of the ..... Meridian, in the State of

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..... U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ..... 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oath of U.S. Surveyor see book "L" T. 2 S., R. 6 W.

of the .....

..... Meridian, in the State of ..... which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said ..... and sworn to before me  
this ..... day of ..... 191 }



APPROVAL.

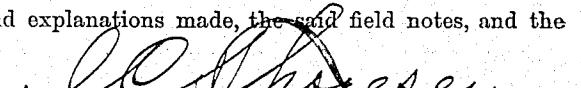
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Dec. 5, 1914.

The foregoing field notes of the retrace of the Salt Lake Base Line, through Range 8 West; and the survey of the Salt Lake Base Line, through Ranges 9 and 10 West, all of the Salt Lake Meridian, Utah,

executed by John R. Stewart

under his special instructions dated May 28, 1912, having been critically examined, and the necessary corrections and explanations made, the field notes, and the retracements and surveys they describe, are hereby approved.

  
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

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BOOK A-400

B.

## FIELD NOTES

## OF THE SURVEY OF THE

EAST AND NORTH BOUNDARIES OF TOWNSHIPS 1 AND 2 NORTH, RANGE 8 WEST;

WEST AND NORTH AND RETRACEMENT SOUTH BOUNDARIES

TOWNSHIP 3 NORTH, RANGE 9 WEST;

**WEST AND NORTH AND RETRACEMENT EAST AND SOUTH BOUNDARIES**

TOWNSHIP 2 SOUTH, RANGE 10 WEST;

EAST AND WEST BOUNDARIES OF TOWNSHIP 1, SOUTH, RANGE 10 WEST;

AND

SOUTH, WEST, AND NORTH BOUNDARIES OF TOWNSHIP 3 SOUTH, RANGE 6 WEST

*Of the* SALT LAKE BASE AND *Meridian.*

*In the State of* **UTAH**

### *Meridian,*

**EXECUTED BY**

# JOHN R. STEWART AND CLAUDE L. HEIST

and Transitman  
In the capacity of U. S. Surveyor, under instructions dated May 28, 1912,  
issued by the United States Surveyor General to govern surveys included in  
Group No. 17, which were approved by the Commissioner of the General Land  
Office, June 7, 1912, pursuant to authority contained in the Act of  
Congress dated , 1912.

*Survey commenced* June 7, 1912,

*Survey completed* August 28, 1912.

BOOK A-400

# INDEX DIAGRAM.

Township \_\_\_\_\_, Range \_\_\_\_\_

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

East bdy.T.1 N., R.8 W.

**Chains.** Survey Commenced June, 7, 1912, and executed with a W. and L.E. Gurley Solar compass. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc; which is also the least count of the Verniers of the latitude and declination arcs.

I examine the adjustments of the instrument and correct the level and collimation errors;

Note: For complete test of instrument see notes of Retracement of Salt Lake Base Line through Range 8 W.

June 7, 1912: At the Base cor. of Tps. 1 N., Rs. 7 and 8 W., heretofore described, latitude  $40^{\circ}46'04''$  N., longitude  $112^{\circ}41'49''$  W., I set off  $40^{\circ}46'$  N., on the lat.arc;  $22^{\circ}49'$  N., on the decl.arc; and at 3 h 59 m p.m., l.m.t., I determine a meridian with the solar.

Thence I run

North bet. secs. 31 and 36.

Over level land; through scattering shadscales.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor., mkd. on brass cap

$\frac{1}{2}$	S 36	S 31
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Dig pits,  $18 \times 18 \times 12$  ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

66.00 Leave undergrowth, and enter alkali flat, bears E. and W.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, mkd. on brass cap

T 1 N	
R 8 W	R 7 W
S 25	S 30
---	
S 36	S 31

1912.

Dig pits,  $18 \times 18 \times 12$  ins.: in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay; 3rd rate. Salty.

Subsoil, clay.

No timber.

Undergrowth, shadscales. No grass.

I found no trace of old corners.

## East bdy.T.1 N.R.8 W.-Continued.

Chains

North,betsecs.25 and 30.

Over level land;through alkali flat.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for  $\frac{1}{4}$  sec.cor.,mkd.on brass cap

S 25	S 30
1912	

dig pits,18x18x12 ins.,N.and S.of post,3 ft.dist.;and raise a mound of earth, $3\frac{1}{2}$  ft.base, $1\frac{1}{2}$  ft.high,W.of cor.

75.00 Enter dense undergrowth,bears E.and W.

80.00 Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.19,24,25, and 30,mkd.on brass cap

T 1 N	
R 8 W	R 7 W
S 24	S 19
<hr/>	
S 25	S 30
1912.	

And dig pits,18x18x12 ins.in each sec. $5\frac{1}{2}$  ft.dist.;and raise a mound of earth,4 ft.base,2 ft.high,W.of cor.

Land,level.

Soil,clay;3rd rate.

Subsoil,clay Salty

No timber.

Undergrowth,shadscales.and greasewood.

No grass.

Land covered with dense undergrowth,5.00 chs.

June 7,1912.

June 8,1912.At 6 h 59 m a.m.,l.mt.I set off  $40^{\circ}48'N.$ ,on the lat.arc; $22^{\circ}52'N.$ ,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.19,24,25, and 30.

Thence I run

North,betsecs.19 and 24.

Over level land;through dense undergrowth.

20.00 Leave undergrowth,and enter alkali flat,bears E.and W.  
33.00 Enter dense undergrowth,bears E.and W.

East bdy.T.1 N., R.8 W.-Continued..

Chains

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. mkd. on brass cap

$\frac{1}{4}$	
S 24	S 19
1912	

And dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

45.00 Leave undergrowth and enter alkali flat, bears E. and W.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 18, 19. and 24, mkd. on brass cap

T 1 N	
R 8 W	R 7 W
S 13	S 18
S 24	
S 19	
1912.	

Dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay; 3rd rate.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 32.00 chs.

North, bet. secs. 13 and 18.

Over level land; across alkali flat.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. mkd. on brass cap

$\frac{1}{4}$	
S 13	S 18
1912.	

Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

65.00 Enter dense undergrowth, bears E. and W.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 7, 12, 13 & 18, mkd. on brass cap

East bdy.T.1 N., R.8 W.-Continued.

Chains

	T 1 N
R 8 W	R 7 W
S 12 ✓	S 6 ✓
S 13 ✓	S 18 ✓

1912.

Land level.

Soil, sandy and clay 2 ft. deep. Subsoil clay.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 15.00 chs.

June 8, 1912: At this cor. I set off 22°52' N., on the decl. arc; and at 11 h 59 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40°50' N., which is the proper lat. nearly.

North, bet. secs. 7 and 12.

Over level land; through dense undergrowth.

- 7.10 Leave undergrowth and enter alkali flat, bears E. and W.  
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. . mkd. on brass cap  $\frac{1}{2}$

$\frac{1}{2}$ ✓	
S 12 ✓	S 7 ✓
	1912.

Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

- 80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, mkd. on brass cap

	T 1 N
R 8 W	R 7 W
S 1 ✓	S 6 ✓
S 12 ✓	S 7 ✓

1912.

Dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay loam; 3rd rate.

No timber.

Undergrowth, shadscales and greasewood.

Good grass.

## E.bdy.T 1 N.,R.8 W.-Continued.

Chains	Land covered with dense undergrowth, 7.10 chs.
	North bet. sec.s. 1 and 6.
	Over barren alkali flat.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec.cor.. mkd.on brass cap
	S 1   S 6 1912.
	Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
80.00	Set temp. cor.of Tps. 1 and 2 N., Rs. 7 and 8 W. Note: Later the permanent cor.was set at
84.33	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor.of Tps. 1 and 2 N., Rs. 7 and 8 W., mkd.on brass cap
	T 2 N. R 8 W.   R 7 W. S 36   S 31 ---+--- S 1'   S 6' R 8 W   R 7 W T 1' N. 1912... Dig pits, 24x24x12 ins., on each line, N., E., and W., 4 ft. and S. of post, 8 ft. dist.; and raise a mound of earth, 5 ft. base, 2 $\frac{1}{2}$ ft. high, S. of cor.
	Land level.
	Soil, blue clay, salty, 4th rate.
	No timber.
	June 8, 1912.
	North bdy.T.1 N.,R.8 W.
	June 10, 1912: At 7 h 59 m a.m., l.m.t., I set off 40°51'N., on the lat.arc; 23°02'W., on the decl.arc; and determine a meridian with the solar, at the temp.cor.of Tps.1 and 2 N., Rs.7 and 8 W.,

North bdy.T.1 N.,R.8 W.--Continued.

Chains

Thence I run

West on a random line along N.bdy.of Tp..setting temp.~~t~~ sec. and sec.cors.at intervals of 40.00 chs.;and at 475.39 chs. intersect W.bdy.of Tp.,4.35 chs.S.of the cor.of Tps.1 and 2 N.,Rs.8 and 9 W.,which is a sandstone,10x12x8 ins.,above ground,firmlly set, and mkd.and witnessed as described by the surveyor general.The failing is out of limits;therefore I begin at the Tp.cor.and run east placing the fractional distance in the western half mile.

June 10, 1912.

June 11, 1912:At 6 h 59 m a.m.;l.m.t.,I set off  $40^{\circ}51'N.$ ,on the lat.arc; $23^{\circ}07'N.$ ,on the decl.arc;and determine a meridian with the solar at the cor.of Tps.1 and 2 N.,Rs.8 and 9 W.

Thence I run

East, on a true line betsecs.6 and 31.

Over mountainous land;through scattering timber and dense undergrowth.Asc.

3.40 Top of ridge,150 ft.above cor.,bears N. and S.

Desc.

35.39 Set an iron post,3 ft.long,1 in.in dia., $\frac{2}{3}$  ins.in the ground, on solid rock and surrounded by mound of stone, for  $\frac{1}{4}$  sec.cor..with base cap mkd.

S 31  
S 6  
1912.

and raise a mound of stone,2 ft.base, $1\frac{1}{2}$  ft.high,NE of cor.

70.00 Leave timber,bears N.and S.

75.39 Set an iron post,3 ft.long,3 ins.in dia., $\frac{1}{2}$  ins.in the ground, on rock, and surrounded by mound of stone,for cor.

of secs.5,6,31, and 32,with base cap mkd.

T 2 N	R 8 W
S 31	S 32
S 6	S 5
T 1 N R 8 W	
1912.	

## North bdy.T.1 N., R.8 W.-Continued.

Chains

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 Land, mountainous.  
 Soil, clay mixed with gravel and rock.  
 Timber, cedar and pinon pine.  
 Undergrowth, mahogany.  
 Good grass for grazing.  
 Mountainous land, or land covered with dense undergrowth,  
 75.39 chs.

June 11, 1912: At this cor. I set off  $23^{\circ}07'N.$ , on the decl. arc; and at 11 h 59 m a.m., l.m.t., I observe the sun, on the meridian, the resulting lat. is  $40^{\circ}51'N.$ , which is the proper lat. nearly.

East, on a true line bet. secs. 5 and 32.

Over mountainous land; through scattering undergrowth.

Desc. .

8.00 Hollow, 300 ft. below cor., course S.60°E.

Asc. .

10.00 Enter scattering timber, bears NW and SE.

20.00 Top of spur, 300 ft. above hollow, bears N. and S.

Desc. .

40.00 Set an iron post, 3 ft. long, 1 in. in dia.,  $\frac{1}{14}$  ins. in the ground, on rock, and surrounded by mound of stone, for  $\frac{1}{2}$  sec. cor. mkd. on brass cap

S 32  
S 5

1912.

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

42.50 Bottom of hollow, 300 ft. below spur, course NE.

Asc. .

45.00 Rocky spur, 300 ft. above hollow, bears N. and S.

Desc. .

51.00 Ravine 150 ft. below spur, course N..

Asc. .

80100 Set an iron post, 3 ft. long, 3 ins. in dia., 16 ins. in the ground, on rock, and surrounded by mound of stone, for cor.

Chains

cor.of secs.4,5,32, and 33,with brass cap mkd.

T	2	N	R	8	W
S	32		S33		
S	5		S 4		
T	1	N	R	8	W

1912.

And raise a mound of stone,2 ft.base,1 $\frac{1}{2}$  ft.high,W.of cor.

Land,mountainous .

Soil,clay mixed with rock and gravel.

Timber,cedar and pinon pine.

Undergrowth,mahogany.

Good grass for grazing.

Mountainous land,80.00 chs.

June 11,1912.

June 12,1912:At 6 h 59 m a.m.,l.m.t.,I set off 40°51'N.,  
on the lat.arc 23°11'N.,on the decl.arc;and determine a  
meridian with the solar,at the cor.of secs.4,5,32, and 33.  
Thence I run

East, on a true line bet.secs.4 and 33.

Over mountainous land;through dense undergrowth.

Asc.

10.00 Rocky spur,200 ft.above cor. bears N.and S.

Desc.over ledges.

31.00 Foot of descent,400 ft.below ridge,bears N.and S.

Enter valley.

Enter dense shadscale&amp;s and greasewood,bears N.and S.

31.50 Road,bears N 30°W.and S.30°E.

38.50 Road,bears N.and S.

40.00 Set an iron post,3 ft long,1 in.in dia..26 ins.in the  
ground,for  $\frac{1}{4}$  sec.cor..mkd.on brass cap

2	
S 33	
S 4	

1912

Dig pits,18x18x12 ins.,E.and W.of post,3 ft.dist.;and raise  
a mound of earth,3 $\frac{1}{2}$  ft.base,1 $\frac{1}{2}$  ft.high,N.of cor.

58.0 County road,bears N.10°W.and S.10°E.

80.00 Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the

North bdy.T.1 N., R.8 W.-Continued..

Chains

ground, for cor. of secs. 3, 4, 33, and 34, with brass cap mkd.

T 2 N	R 8 W
S 33	S 34
S 4	S 3
T 1 N	R 8 W

1912.

Dig pits, 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous and level.

Soil, on West 31.00 chs. very rocky on east 49.00 chs. soil is rich clay loam about 2 ft. deep. Subsoil, clay and gravel. No timber.

Undergrowth scattering mahogany on West 31.00 chs. and dense shadscales and greasewood on East 49.00 chs.

Good grass on west 31.00 chs.

Mountainous land, or land covered with dense undergrowth, 80.00 chs.

East, on a true line bet. secs. 3 and 34.

Over level land; through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for cor. with brass cap mkd.

S	34
S	3

1912.

And dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

42.50 Road, bears N. 30° E. and S. 30° W.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 2, 5, 34, and 35, with brass cap mkd.

T 2 N	R 8 W
S 34	S 35
S 3	S 2
T 1 N	R 8 W

1912.

Dig pits, 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay loam; 2nd rate. above 2 ft. deep.

No timber.

Undergrowth, shadscales and greasewood.

A very little grass.

## North bdy.T.L N.R.8 W.-Continued..

Chains	Land covered with dense undergrowth, 80.00 chs. June 12, 1912: At this cor. I set off 23° 11' N., on the decl. arc; and at 11 h 59 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40° 51' N., which is the proper lat. nearly.
	East, on a true line bet. secs. 2 and 35.
	Over level land; through dense undergrowth.
40.00	Set an iron post, 3 ft. long, 1 ins. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. with brass cap mkd.
	$\begin{array}{r} \frac{1}{4} \\ S \quad 35 \\ \hline S \quad 2 \end{array}$
	1912.
	Dig pits, 18x18x12 ins. E and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 2, 35, and 36, mkd. on brass cap
	$\begin{array}{c c} T & 2 \ N \ R \ 8^{\circ} \ W \\ S \ 35 & S \ 36 \\ \hline S \ 2 & S \ 1 \\ T \ 1 \ N \ R \ 8^{\circ} \ W \end{array}$
	1912.
	Dig pits, 18x18x12 ins., in each sec. 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level.
	Soil, clay loam; 2nd rate. above 2 ft. deep.
	No timber.
	Undergrowth, shadscales and greasewood.
	No grass.
	Land covered with dense undergrowth, 80.00 chs.
	East, on a true line bet. secs. 1 and 36.
	Over level land; through dense undergrowth.
10.00	Leave undergrowth and enter barren alkali flat, bears NE and SW.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. with brass cap mkd.

North bdy.T.1 N., R.8 W.-Continued.

Chains

S	36
S	1

1912.

Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

80.00 Intersect E.bdy.of Tp., 4.33 chs. North of the temp .cor.of Tps.1 and 2 N., Rs.7 and 8 W.,

Set an iron post, 3 ft. long, 3 ins.in dia., 24 ins.in the ground, for cor.of Tps.1 and 2 N.,Rs.7 and 8 W.,with brass cap mkd.

T 2 N	
R 8 W	R 7 W
S 36.	S 31
S 1	S 6
R 8 W	R 7 W
T 1 N.	

1912.

Dig pits,  $24 \times 24 \times 12$  ins., on line, N., E., and W., 4 ft. and S. of post, 8 ft. dist.; and raise a mound of earth, 5 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.

Land, level.

Soil, clay; 2nd and 3rd rate.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 10.00 chs.

June 12, 1912.

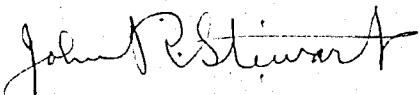
*John P Stewart*  
U.S. Surveyor.

## Boundaries of T.1 N.R.8 W.

Latitudes, departures, and closing errors.

Line Designated	Course	Distance chs.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
W.bdy.T.1 N.,R.8 W.	North	485.10	485.10			
E.bdy.T.1 N.,R.8 W.	East	479.93			479.93	
E.bdy.T.1 N.,R.8 W.	South	484.33		484.33		
S.bdy.T.1 N.,R.8 W.	S.89°54'W	480.50		.84		480.50
Convergency						.62
			485.10	485.17	480.55	480.50
Error in lat.				485.10	480.50	
Error in dep.						.05

June 12, 1912.


  
U. S. Surveyor.

Chains

Survey commenced June 17, 1912, and executed with a Young and Sons light mountain transit, No. 8517 with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct and was approved by the Surveyor General for Utah, on Feb. 17, 1912.

Note: For test of instrument see notes of Sub. T. 1 S. R. 8 W.

At 7h 1m a.m.l.m.t., I set off  $40^{\circ}51'N.$  on the lat. arc;  $23^{\circ}25'N.$  on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 1 and 2 N., Rs. 7 and 8 W., heretofore described.

Thence I run

North bet. secs. 31 and 36

Over barren alkali flat;

9.30 Enter dense undergrowth, bears NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for sec. cor. with brass cap mkd.

$\frac{1}{2}$	S 36	S 31
---------------	------	------

1912

Dig pits, 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

80.00 Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 25, 30, 31 and 36 with brass cap mkd.

T 2 N

R 8 W	R 7 W
S 25	S 30

S 36	S 31
------	------

1912

Dig pits 18 x 18 x 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist.,

East Bay. T. 2 N., R. 8 W.

Chains

and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land level.

Soil, sandy and clay loam; about 14 ins. deep, 3rd rate.  
Subsoil, sand and marl.

No timber.

Undergrowth, greasewood and shadscale.

No grass.

Land covered with dense undergrowth 70.70 chs.

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North, bet. secs. 25 and 30.

Over nearly level land; through dense undergrowth.

36.44 To west shore of Great Salt Lake, one chain from the water, bears NW. and SE.

Set an iron post, 5 ft. long, 3 ins. in dia., 24 ins. in the ground for meander cor. of Tps. 2 N., Rs. 7 and 8 W., with brass cap mkd.

T 2 N  
R 8 W. R 7 W  
M C  
S 25 S 30  
1912

Dig a pit 36 x 36 x 12 ins. S. of post 8 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.

Land, level.

Soil, sandy and clay loam; 12 ins. deep; 3rd rate.

No timber.

Undergrowth, greasewood and shadscales.

Subsoil, marl.

No grass.

Land covered with dense undergrowth 36.44 chs.

June 17, 1912: At this cor. I set off  $23^{\circ}24'N.$  on the decl. arc; and at 0h 1m p.m.l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}53'N.$ , which is the proper lat. nearly.

North Bdy. T. 2 N., R. 8 W.

Chains

June 18, 1912: At 7h 1m a.m.l.m.t., I set off  $40^{\circ}57'N.$  on the lat. arc;  $23^{\circ}26'N.$  on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 2 and 3 N., Rs. 8 and 9 W., which is a blue limestone,  $10 \times 7 \times 7$  ins. above ground, firmly set and mkd. and witnessed as described by the Surveyor General.

Thence I run

East, bet. secs. 6 and 31.

Over level land; through cultivated land belonging to E. E. McBride on the south and to E. B. Waddell on the north.

6.70 E. E. McBrides' house bears N. 67 lks. dist. ( $12 \times 16$  ft.)

7.32 E. E. McBride's shop bears South 18 lks. dist. ( $10 \times 12$  ft.)

12.00 Road bears NW. and SE.

21.00 Leave E. B. Waddell's cultivated land, bears north.

38.74 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

S 31

S 6

1912

Dig pits,  $18 \times 18 \times 12$  ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

40.00 Leave E. E. McBrides cultivated land, bears South.

42.83 Well bears N. 1.00 ch. dist.

78.74 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32, with brass cap mkd.

T 3 N S 31	R 8 W S 32
S 6 T 2 N	S 5 R 8 W
1912	

Dig pits  $18 \times 18 \times 12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Chains	Land, level.												
	Soil, clay loam and sand; 1st rate.												
	Subsoil, clay.												
	No timber.												
East, on a true line bet. secs. 5 and 32.													
Over level land; which has been cleared of the greasewood, but not ploughed.													
1.60	Road, bears N.80°E. and S.80°W.												
16.90	Same road, bears NW. and SE.												
22.30	Enter dense undergrowth, bears N. and S.												
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.												
$\frac{1}{4}$ S . 32													
S . 5 1912													
Dig pits, 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.													
80.00	Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 4,5,32 and 33, with brass cap mkd.												
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>T 3 N</td><td>R 8 W</td></tr> <tr> <td>S 32</td><td>S 33</td></tr> <tr> <td colspan="2"><hr/></td></tr> <tr> <td>S 5</td><td>S 4</td></tr> <tr> <td>T 2 N</td><td>R 8 W</td></tr> <tr> <td colspan="2">1912</td></tr> </table>		T 3 N	R 8 W	S 32	S 33	<hr/>		S 5	S 4	T 2 N	R 8 W	1912	
T 3 N	R 8 W												
S 32	S 33												
<hr/>													
S 5	S 4												
T 2 N	R 8 W												
1912													
Dig pits, 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.													
Land, level.													
Soil, clay loam and sand; 1st rate.													
Subsoil, clay.													
No timber.													
Undergrowth, greasewood and shadscales.													
No grass.													
Land covered with dense undergrowth 57.70 chs.													

Chains

June 18, 1912: At this cor. I set off  $23^{\circ}26'N.$  on the decl. arc; and at Oh 1m p.m.l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}57'N.$  which is the proper lat. nearly.

East, on true line bet. secs. 4 and 33.

Over level land; through dense undergrowth.

4.00 Leave dense and enter scattering undergrowth, bears N. and S.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for  $\frac{1}{2}$  sec. cor.; with brass cap mkd.

$\frac{1}{2}$   
S 33  
S 4  
1912

Dig pits 18 x 18 x 12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth,  $5\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 3,4,33 and 34, with brass cap mkd.

T 3 N	R 8 W
S 33	S 34
<hr/>	
S 4	S 3
T 2 N	R 8 W
1912	

Dig pits, 18 x 18 x 12 ins. in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

Land, level.

Soil, clay loam and sandy, 1st rate.

Subsoil, clay.

No timber.

Undergrowth, greasewood and shadscales.

No grass.

Land covered with dense undergrowth, 4.00 chs.

East, on a true line bet. secs. 3 and 34.

Chains

Over level land; through scattering undergrowth.

37.20 Road, bears NW. and SE.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor., with brass cap mkd.

$\frac{1}{4}$   
S 34

S 3  
1912

Dig pits, 18 x 18 x 12 ins. E. and W. of post, 3 ft.

dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

48.00 Leave undergrowth, enter barren alkali flat, bears N. and S.

66.26 To the west shore of Great Salt Lake about 25.00 chs. from waters edge, bears NE. and SW.

Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground for meander cor. of Tps. 2 and 3 north, R. 8 W., with brass cap mkd.

T 3 N R 8 W

S 34

~~M C~~

S 3

T 2 N R 8 W

1912

Dig a pit 36 x 36 x 12 ins. W. of post, 8 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

Land, level.

Soil, clay loam and sand; 2nd and 4th rate.

Subsoil, marl.

No timber.

Undergrowth, greasewood and shadscales.

No grass.

June 18, 1912.

Claude L. Heist  
U. S. Transitman.

## Boundaries of T. 2 N., R. 8 W.

Description	Line designated	Course	Dist- ance Chs.	Latitudes, Departures, and Closing Errors.			
				N Chs.	S Chs.	E Chs.	Departures W Chs.
E.Bdy.T.2 N.R.8 W.		South	116.44		116.44		
S.Bdy.T.2 N.R.8 W.		West	475.39				475.39
W.Bdy.T.2 N.R.8 W.		North	240.00	240.00			
W.Bdy.T.2 N.R.8 W.		N.0°10'E.	80.02	80.02		.23	
W.Bdy.T.2 N.R.8 W.		N.0°04'E.	80.24	80.24		.09	
W.Bdy.T.2 N.R.8 W.		N.0°06'E.	40.18	40.18		.07	
W.Bdy.T.2 N.R.8 W.		N.0°01'E.	40.14	40.14		.01	
N.Bdy.T.2 N.R.8 W.		East	305.00			305.00	
Meanders		S.6°45'E.	81.45		80.89	9.57	
Meanders		S.46°15'E.	.36		.25	.26	
Meanders		S.51°30'E.	64.93		40.42	50.82	
Meanders		S.67°00'E.	31.60		12.35	29.09	
Meanders		East	.40			.40	
Meanders		S.74°00'E.	2.13		.59	2.05	
Meanders		S.55°00'E.	20.00		11.47	16.38	
Meanders		S.50°15'W.	24.00		15.35		18.4
Meanders		S.68°45'W.	.43		.16		.4
Meanders		S.63°15'W.	4.90		2.21		4.3
Meanders		S.48°00'W.	20.00		13.38		14.8
Meanders		S.16°30'E.	15.00		14.38	4.26	
Meanders		S.25°15'E.	35.00		31.66	14.93	
Meanders		S.39°45'E.	23.82		18.31	15.23	
Meanders		S.4°E.	3.23		3.22	.23	
Meanders		S.34°30'E.	40.00		32.97	22.66	
Meanders		S.46°15'W.	20.00		13.83		14.4
Meanders		South	30.00		30.00		
Meanders		S.44°30'E.	36.88		26.31	25.85	
Meanders		S.58°00'E.	20.00		10.60	16.96	
Meanders		S.63°45'E.	15.00		6.63	13.45	
Convergency						.50	
Totals				480.58	481.42	528.04	527.92
Error in lat. and dep.					.84	.12	

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# Page

Survey commenced June 23, 1912, and executed with the instrument described in book "A" of this survey. I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 2 and 3 N., Rs. 8 and 9 W., previously described, in approximate latitude,  $40^{\circ}56'30''$  N., longitude  $112^{\circ}48'20''$  W., I set off  $40^{\circ}56'30''$  N., on the lat. arc,  $23^{\circ}27'N.$ , on the decl. arc, and at 4h.2m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station.

June 23, 1912.

June 24: At 1h.24m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station. At 7 a.m., l.m.t., I lay off the azimuth of Polaris  $1^{\circ}32'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set June 23, on which the meridian falls  $0.4$  ins. east of the mark determined by the solar.

At 8h.2m., a.m., l.m.t., I set off  $40^{\circ}56'30''$  N., on the lat. arc,  $23^{\circ}26'N.$ , on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set, 5 chs. N. of my station: this mark falls  $0.3$  ins. east of the meridian established by the Polaris observation, p.m., and 4h.2m., l.m.t., of June 23, 1912.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively, about  $0'21''$  west and  $0'16''$  east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of

## CHAINS

After a short walk through the undergrowth, the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h.15m., a.m. is N. $17^{\circ}30'W.$ , the angle thus determined gives the mag.decl. $17^{\circ}30'E.$

From consideration of direction of surveyor's Thence I run road, which bears N.E. and S.W. along the S. end of cultivated field claimed by H.A. Shryver.

Over gently rolling land, through dense undergrowth,

along the S. end of cultivated field claimed by H.A.

Shryver.

- 6.15 H.A. Shryver's house, 18x14 ft., bears N.5 chs.dist.  
8.30 Road, bears NW. and SE.  
22.00 SW. corner of cultivated field, contains about 60 acres of  
land.  
22.35 Wash, 5 lks.wide, 3 ft. deep, course NE.  
40.05 Fall 8 lks.N. of the  $\frac{1}{4}$  sec.cor., which is a limestone,  
8x10x8 ins.above ground, firmly set, marked and witnessed  
as described by the surveyor general.  
The course of this half mile is therefore N. $89^{\circ}58'W.$ ,  
and the distance 40.05. chs.  
I offset over the cor. and run N. $89^{\circ}51'W.$ , with continuous  
measurement.  
48.25 Old road, bears NE. and SW.  
61.36 Old Road, bears NW. and SE.  
63.00 Leave gently rolling land, bears NW. and SE. Ascend  
over mountainous land.  
80.15 Fall 4 lks.N. of the cor.of secs.1-2-35 and 36, which is  
a limestone, 10x7x6 ins.above ground, marked and witnessed  
as described by the surveyor general.  
The course of this half mile is therefore N. $89^{\circ}54'W.$ ,  
and the distance 40.10.  
Land, mountainous and gently rolling.  
Soil, light sandy loam, 24 ins.deep, 1st rate on the  
rolling portion, clay and gravel, 24 ins.deep, 2nd rate  
on the rest.  
Subsoil, gravel and loose rock.

## S.BOUNDARY OF T.3 N.,R.9 W.

CHAINS

No timber.

Undergrowth, sage brush, greasewood, shad scale and grass.

Dense undergrowth on 80.15 chs.

N. $89^{\circ}51'W.$ , retracing

Bet. secs. 2 and 35.

Ascend over mountainous land through dense undergrowth.

40.40

Fall 1 lk.N. of the cor. of sec. 2, which is a limestone, 10x10x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

June 24; At this cor. I set off  $23^{\circ}26'N.$ , on the decl. arc, and at Oh. 2m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $40^{\circ}56'30''N.$ 

70.00

Enter scattering timber, bears N. and S.

80.44

Fall 2 lks.N. of the cor. of secs. 2-3-34 and 35, which is a limestone, 12x10x8 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

The course of this line is therefore  $N.89^{\circ}52'W.$ , and the distance 80.44 chs.

Land, mountainous.

Soil, clay loam with gravel, 16 to 20 ins. deep, 2nd rate.

Subsoil, gravel and loose rock.

Timber, cedar.

Undergrowth, shad scale, sage brush and grass.

Dense undergrowth on 80.44 chs.

N. $89^{\circ}51'W.$ , retracing

Bet. secs. 3 and 34.

Ascend over mountainous land through scattering timber and dense undergrowth.

6.70

Lake Side Range, 600 ft. high, bears NW. and SE.

Descend.

Hollow, 200 ft. deep, course NW.

23.75

## S.BOUNDARY OF T.3 N., R.9 W.

CHAINS	
32.00	Spur, projects N. Descend.
40.15	Fall 5 lks.S. of the $\frac{1}{4}$ sec.cor., which is a limestone, 11x10x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
57.35	Hollow, 150 ft. deep, course NW. Leave scattering timber, bears N. and S.
67.40	Ascend. Spur, projects NW.
73.50	Descend. Foot of descent, leave mountainous land, bears NW. and SE. Enter gently rolling land in Puddle Valley.
77.35	Road, bears NE. and SW.
80.25	Fall 11 lks.S. of the cor. of secs. 3-4-33 and 34, which is a limestone, 8x6x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. The course of this line is therefore N. $89^{\circ}46'W.$ , and the distance 80.25.
	Land, rolling and mountainous. Soil, clay loam with gravel, 12 ins. deep, 2nd and 3rd rate on mountainous portion, clay and sandy loam, 24 ins. deep on the rest. Subsoil, gravel and loose rock. Timber, cedar. Undergrowth, shad scale, greasewood sage brush and grass. Dense undergrowth on 80.25 chs.

June 24, 1912.

June 25: At 8h.2m., a.m., 1.m.t., I set off  $40^{\circ}56'30''N.$ , on the lat.arc,  $23^{\circ}25'N.$ , on the decl.arc, and determine a meridian with the solar at the cor.of secs. 3-4-33 and 34. Thence I run N.  $89^{\circ}51'W.$ , retracing Bet. secs. 4 and 33. Surveyed 80.25 chs.

## S.BOUNDARY OF T.3 N., R.9 W.

CHAINS	
	Over gently rolling land through dense undergrowth.
40.23	Fall 5 lks.N.of the $\frac{1}{4}$ sec.cor.,which is a limestone,10x8x6 ins.above ground,firmly set,marked and witnessed as described by the surveyor general.
57.60	Road,bears NW.and SE..
80.20	Fall 11 lks.N.of the cor.of secs.4-5-32 and 33,which is a lime stone 10x8x8 ins.above ground,firmly set,marked and witnessed as described by the surveyor general. The course of this line is therefore N. $89^{\circ}56'$ W.,and the distance 80.20.chs.
	Land,gently rolling.
	Soil,clay and sandy loam,24 ins.deep,1st rate.
	Subsoil,clay and gravel.
	No timber.
	Undergrowth,greasewood,shadscale,sage brush and grass.
	Dense undergrowth on 80.20 chs.
	<hr/>
	N. $89^{\circ}51'$ W.,retracing
	Betsecs.5 and 32.
	Over gently rolling land through dense undergrowth,
40.28	Fall 5 lks.N.of the $\frac{1}{4}$ sec.cor.,which is a limestone,6x8x6 ins.above ground,firmly set,marked and witnessed as described by the surveyor general. June 25: At this cor.I set off $23^{\circ}24'$ N.,on the decl.arc, and at 0h.2m.,p.m.,l.m.t.,observe the sun on the meridian, the resulting lat.is $40^{\circ}56'30''$ N.
80.32	Fall 11 lks.N.of the cor.of secs.5-6-31 and 32,which is a limestone,8x6x4 ins.above ground,firmly set,marked and witnessed as described by the surveyor general. The course of this line is therefore N. $89^{\circ}56'$ W.,and the distance 80.32chs.
	Land,Gently rolling.
	Soil,clay and sandy loam,36 ins.deep,1st rate.
	Subsoil,clay and gravel.

## CHAINS

No timber.

Undergrowth, sage brush, greasewood, shad scale and grass.

Dense undergrowth on 80.32 chs.

N.89°51'W., retracing

Bet. secs. 6 and 31.

Over gently rolling land, through dense undergrowth.

40.24 Fall 6 lks.N.of the  $\frac{1}{4}$  sec.cor., which is a limestone, 8x6x4 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

79.43 Fall 10 lks.N.of the cor.of Tps.2 and 3 N., Rs.9 and 10 W., which is a limestone 10x6x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

The course of this line is therefore N.89°56'W., and the distance 79.43 chs.

Land, gently rolling.

Soil, clay and sandy loam, 24 ins. deep, 1st rate.

Subsoil, clay and gravel.

No timber.

Undergrowth, greasewood, shad scale, sage brush and grass.

Dense undergrowth on 79.43 chs.

## W.BOUNDARY OF T.3 N.,R.9 W.

North, on the W.bdy.of the Tp. for 4 miles E. L. C. 36.

Bet. secs. 31 and 36.

Over gently rolling land, through dense undergrowth.

40.00 Set an iron post, 3 ft.long, 1 in.in diam., 26 ins.in the ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked,

$\frac{1}{4}$ S 36	S 31
--------------------	------

1912

## W.BOUNDARY OF T.3 N.,R.9 W.

CHAINS

- dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.  
 51.70 Road, bears NE. and SW.  
 66.50 Same road, bears NW. and SE.  
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for the cor. of secs. 25-30-31 and 36, with brass cap, marked

T 3 N

R 10 W R 9 W

S 25 S 30

S 36 S 31

1912

dig pits, 18x18x12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
 Land, gently rolling.

Soil, clay loam and sand, 24 ins. deep, 2nd rate.

Subsoil, clay.

No timber.

Undergrowth, shadscales. No grass.

Dense undergrowth on 80.00 chs.

June 25, 1912.

June 26: At 8h.3m., a.m., l.m.t., I set off  $40^{\circ}57'N.$ , on the lat.arc,  $23^{\circ}23'N.$  on the decl.arc, and determine a meridian with the solar at the cor. of secs. 25-30-31 and 36.

Thence I run N. 45° E. through the center of sec. 30, North, bet. secs. 25 and 30.

Over gently rolling land through dense undergrowth.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked

 $\frac{1}{4}$  S 25 S 30

1912

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and

## W.BOUNDARY OF T.3 N.,R.9 W.

CHAINS

raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the  
ground, for the cor. of secs. 19-24-25 and 30, with brass  
cap, marked

T 3 N  
R 10 W R 9 W  
S 24 | S 19  
-----  
S 25 | S 30

1912

dig pits, 18x18x12 ins. in each sec.,  $5\frac{1}{2}$  ft. dist., and  
raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
Land, gently rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate.

Subsoil, clay.

No timber.

Undergrowth, shadscale. No grass.

Dense undergrowth on 80.00 chs.

North, bet. secs. 19 and 24.

Over gently rolling land, through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the  
ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 24 | S 19

1912

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and  
raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the  
ground, for the cor. of secs. 13-18-19 and 24, with brass  
cap, marked

T 3 N

R 10 W R 9 W

S 13 | S 18  
-----  
S 24 | S 19

1912

## W.BOUNDARY OF T.3 N.,R.9 W.

CHAINS

dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, gently rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate.

Subsoil, clay.

No timber.

Undergrowth, shadscale. No grass.

Dense undergrowth on 80.00 chs.

North, bet. secs. 13 and 18.

Over gently rolling land, through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 ins. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 13 | S 18

1912

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

June 26: At this cor. I set off 23° 22' N., on the decl. arc, and at 0h.3m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 40° 59' N.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for the cor. of secs. 7-12-13 and 18, with brass cap, marked

T 3 N

R 10 W R 9 W

S 12 | S 7

$\frac{1}{4}$  S 13 | S 18

1912

dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, gently rolling.

Soil, clay and sandy loam., 24 ins. deep, 2nd rate.

Subsoil, clay.

No timber.

## W. BOUNDARY OF T. 3 N., R. 9 W.

CHAINS

Undergrowth, shadscales. No grass.

Dense undergrowth on 80.00 chs.

North, bet. secs. 7 and 12.

Over gently rolling land through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 12 | S 7

1912

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor..

67.20 Road, bears NE. and SW.

70.00 Road, bears NW. and SE.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for the cor. of secs. 1-6-7 and 12, with brass cap, marked

T 3 N

R 10 W R 9 W

S 1 | S 6

S 12 | S 7

1912

dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Land, gently rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate.

Subsoil, clay.

Undergrowth, shadscale and grass.

No timber.

Dense undergrowth on 80.00 chs.

## W.BOUNDARY OF T.3 N.,R.9 W.

CHAINS	
	North,betsecs.1 and 6.
	Over gently rolling land,through dense undergrowth.
10.00	Leave gently rolling land,bears E.and W.Ascend over rolling land.
21.30	Ridge,bears E.and W.
	Descend.
40.00	Set an iron post,3 ft.long,1 in.in diam.,26 ins.in the ground,for the $\frac{1}{4}$ sec.cor.,with brass cap,marked
	$\frac{1}{4}$ S 1   S 6 1912
	dig pits,18x18x12 ins.,N.and S.of post,3 ft.dist.,and raise a mound of earth,3 $\frac{1}{2}$ ft.base,1 $\frac{1}{2}$ ft.high,W.of cor.
63.65	Road,bears NW.and SE.
80.00	Set an iron post,3 ft.long,3 ins.in diam.,24 ins.in the ground,for the cor.of Tps.3 and 4 N.,Rs.9 and 10 W.,with brass cap,marked

T 4 N

R 10 W R 9 W

S 36	S 31
S 1	S 6

R 10 W R 9 W

T 3 N

1912

dig pits 24x24x12 ins.,on each line,N.E.and W.,4 ft. and S.of post,8 ft.dist.; and raise a mound of earth, 5 ft.base,2 $\frac{1}{2}$  ft.high,S.of cor.  
Land,rolling.

Soil,clay and sandy loam with gravel,24 ins.deep,2nd rate.

Subsoil,clay.1 $\frac{1}{2}$  ft. sand.1 $\frac{1}{2}$  ft. gravel.

No timber.

Undergrowth,shadscale and grass.

Dense undergrowth on 80.00 chs.lav.

June 26,1912.

## N.BOUNDARY OF T.3 N.,R.9 W.

CHAINS.

June 27: At 8h.3m., a.m., l.m.t., I set off  $41^{\circ}02'N.$ , on the lat.arc,  $23^{\circ}21'N.$ , on the decl.arc, and determine a meridian with the solar at the cor.of Tps:3 and 4 N., R.s.9 and 10 W.

Thence I run

East, bet.secs.6 and 31.

Ascend over rolling land, through dense undergrowth.

- 12.40 Road,bears NW.and SE.
- 20.50 Ascend abruptly.
- 32.00 Lake Side Range, 200 ft.high, bears NW.and SE.
- 34.75 Descend.
- 38.51 Road,bears N.and S.
- Set an iron post, 3 ft.long, 1 in.in diam., 26 ins.in the ground, for the  $\frac{1}{4}$  sec.cor., with brass cap,marked  
 $\frac{1}{4} S/31$

S 6

1912

- dig pits, 18x18x12 ins., E.and W.of post, 3 ft.dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.
- Set an iron post, 3 ft.long, 3 ins.in diam., 24 ins.in the ground, for the cor.of secs.5-6-31 and 32,with brass cap, marked

T 4 N

R 9 W R 9 W 10.37 sec. and 10.2 sec.

S 31 | S 32 10.37 sec. and 10.2 sec.

S 6      S 5

T 3 N

- dig pits, 18x18x12 ins, in each sec.,  $5\frac{1}{2}$  ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.high, W.of cor.

Land, rolling and mountainous.

Soil, clay and gravel, 24 ins.deep, 3rd rate.

Subsoil, gravel and loose rock.

No timber.

Undergrowth, shad scales, greasewood, sage brush and grass.

N.BOUNDARY OF T.3 N.,R.9 W.

CHAINS

Dense undergrowth on 78.51 chs.

June 27: At this cor. I set off  $23^{\circ}20'N.$ , on the decl. arc, and at 0h.3m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $41^{\circ}02'N.$

East, bet. secs. 5 and 32.

Descend over rolling mountainous land through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 32

S 5

1912  
dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

42.60 Foot of descent, leave rolling mountainous land, bears N. and SW. Enter gently rolling land.

Road, bears N. and S.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for the cor. of secs. 4-5-32 and 33, with brass cap, marked

T 4 N

R 9 W R 9 W

S 32 | S 33

S 5 | S 4

T 3 N

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Land, gently rolling and mountainous.

Soil, clay and gravel, 24 ins. deep, 3rd rate, on mountainous portion, clay and sandy loam with gravel, 2nd rate, on the rest.

Subsoil, clay and loose rock.

## N.BOUNDARY OF T.3 N.,R.9 W.

## CHAINS

No timber  
Undergrowth, shad scale, greasewood and grass.  
Dense undergrowth on 80.00 chs.

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East, bet. secs. 4 and 33.  
Over gently rolling land, through dense undergrowth.  
14.40 Road, bears NW. and SE.  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked  $\frac{1}{4} S\ 33$ .  
  
S 4  
1912  
dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.  
57.50 Leave dense undergrowth, bears NW. and SE. Enter barren alkali lake beds.  
76.00 Intersect high water mark on W. shore of Great Salt Lake, 30 chs. from water's edge, bears NW. and SE.  
Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for the meander cor. of fractional secs. 4 and 33, with brass cap, marked

T 4 N R 9 W

S 33 MC

S 4

T 3 N R 9 W

1912

dig a pit, 36x36x12 ins., 8 ft. W. of post., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
Land, gently rolling and level.  
Soil, clay and sandy loam, 24 ins. deep, 2nd rate, on 57.50 chs., light sand with alkali, 4th rate on the rest.  
Subsoil, clay and gravel.  
No timber.

## N. BOUNDARY OF T. 3 N., R. 9 W.

Chains

Undergrowth, greasewood and shadscale, grass.

Dense undergrowth on 57.50 chs. . . . .

June 27, 1912.

## BOUNDARIES OF T. 3 N., R. 9 W.

Latitudes, departures and closing errors.

Line designated	True Bearing	Distance Chs.	Latitudes N. Chs.	Departures E. Chs.	Departures W. Chs.
South Bdy, Sec. 36	N.89°58'W.	40.05	.02		40.05
	N.89°54'W.	40.10	.07		40.10
Sec. 35	N.89°52'W.	80.44	.19		80.44
Sec. 34	N.89°46'W.	80.25	.33		80.25
Sec. 33	N.89°56'W.	80.20	.10		80.20
Sec. 32	N.89°56'W.	80.32	.10		80.32
Sec. 31	N.89°56'W.	79.43	.10		79.43
West Bdy.	North,	480.00	480.00		
North Bdy.	East,	234.51		234.51	
Meanders					
Sec. 4	S.34°50'E.	7.82	6.42	4.47	
Sec. 3	S.26°45'E.	82.40	73.58	37.09	
Sec. 10	S.43°39'E.	62.65	45.33	43.25	
Sec. 11	S.40°34'E.	46.15	35.06	30.01	
Sec. 14	S.20°45'E.	85.60	80.05	30.32	
Sec. 25	S.24°35'E.	48.50	44.11	20.18	
Sec. 24	S.51°30'E.	20.00	12.45	15.65	
	S.66°45'E.	36.00	14.21	33.08	
	S.73°15'E.	32.75	9.44	31.56	
East Bdy.					
2nd Guide Mer.W.					
	South	160.50	160.50		
Convergency		.51		.51	
			480.91	481.15	480.43
Totals				480.91	480.43
Error in latitude				0.24	
Error in dep.					0.36

*John R Stewart*  
U.S. Surveyor

36

For general description of Tp. see Subdivisions of T.3  
N., R. 9 W. and L. 70 ac. of section owned

Volume  
#  
**R0400**

## BOUNDARIES OF T.2 S., R.10 W.

Survey commenced July 10, 1912, and executed with the instrument described in book "A" of this survey.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At a point near camp, in sec. 16, T.2 S., R.10 W., in approximate latitude,  $40^{\circ}38'14''$  N., longitude,  $112^{\circ}58'33''$  W., I set off  $40^{\circ}38'N.$  on the lat. arc,  $22^{\circ}13'N.$  on the decl. arc, and at 4h3m.p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of my station.

July, 10, 1912.

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July 11: At 0h17m.a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs.N. of my station.

At 7 a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}31'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone, set July 10, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8h3m.a.m., l.m.t., I set off  $40^{\circ}38'N.$  on the lat. arc;  $22^{\circ}08'N.$  on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set, 5 chs.N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively about  $0^{\circ}31'W$  and  $0^{\circ}16'E$  of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h30m, a.m.

## SOUTH BOUNDARY OF T. 2 S., R. 10 W.

CHAINS

is N.  $16^{\circ}30'W.$ , the angle thus determined gives the mag. decl.  $16^{\circ}30'E.$

I commence at the cor. of Tps. 2 and 3 S., Rs. 9 and 10 W., which is a stationary sandstone boulder 30x30x12 ins. above ground, marked and witnessed as described by the Surveyor general.

Thence I run

N.  $89^{\circ}54'W.$ , on a random line,

Retracing along the N.bdy. of sec. 1.

40.00 Set temp.  $\frac{1}{2}$  sec. cor. for S.bdy. of sec. 36.

45.42 Fall 2 lks. N. of  $\frac{1}{2}$  sec. cor., which is a 1 in. iron post, marked and witnessed as described by the Surveyor general.

80.00 Set temp. cor. for secs. 35 and 36.

85.10 Fall 5 lks. N. of the cor. of secs. 1-2-35 and 36, which is a 3 in. iron post, marked and witnessed as described by the Surveyor general.

The course of this line is therefore N.  $89^{\circ}56'W.$ , and the distance 85.10 chs.

I destroy all marks on the cor. of secs. 1-2-35 and 36, pertaining to Tp. 2 S.

Thence I run

S.  $89^{\circ}56'E.$ , on a true line.

Along N.bdy. of sec. 1.

Descend over mountainous land through scattering timber and dense undergrowth.

2.10 Hollow, 75 ft. below the cor., course SE.

Ascend.

5.10 Set an iron post, 36 ins. long, 3 in. in diam., 24 ins. in the ground for the cor. of secs. 35 and 36, with brass cap, marked

T 2 S R 10 W.

S 35 | S 36

— T 3 S R 10 W.

1912

A cedar, 10 ins. diam., bears N.  $48^{\circ}E.$ , 69 lks. dist.,

RE SURVEY GUIDE

SOUTH BOUNDARY OF T.2 S., R.10 W.

CHAINS	
	marked, T 2 S R 10 W S 36 BT.
	A cedar, 10 ins. diam., bears N. 69° W., 88 lks. dist., marked T 2 S R 10 W S 35 BT.
10.00	Spur, projects SE. Descend.
28.00	Hollow, 75' deep, course SE. Leave scattering timber. Ascend.
39.68	Intersect the $\frac{1}{4}$ sec. cor. for secs. 1 and 36, heretofore described. I destroy all marks on the cor. pertaining to T.2 S.
42.75	Spur, projects SE. Descend.
45.00	Old road, bears NE. and SW., Redland Springs to Dell. Leave mountainous, enter gently rolling bench land bears NE. and SW.
45.10	Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor., with brass cap, marked
	<u><math>\frac{1}{4}</math> S 36 ✓</u>
	1912
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
85.10	The cor. of Tps. 2 and 3 S., Rs. 9 and 10 W. Land, mountainous and rolling. Soil, clay loam and loose rock, 24 ins. deep, 3rd rate, on mountainous portion. Sandy and clay loam on the rest. Subsoil, clay and loose rock. Timber, cedar and pinon pine. Undergrowth, sage brush and grass. Mountainous land on 45.00 chs., gently rolling on the rest.

---

July 11: At the cor. of secs. 1 and 2, T.3 S., R.10 W., I set off 22°06' N. on the decl. arc, and at 0H5M p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 40°36' N.  
Thence I run  
N. 89°54' W., on a random line

CHAINS	Along the N.bdy.sec.2.
34.90	Set temp. $\frac{1}{4}$ sec.cor.
40.13	Fall 1 lks.N.of the $\frac{1}{4}$ sec.cor., which is a 1 in.iron post, marked and witnessed as described by the surveyor general.
74.90	Set temp.cor.for secs.34 and 35.
80.58	Fall 2 lks.N.of the cor.of secs.2-3-34 and 35, which is a 3 in.iron post,marked and witnessed as described by the surveyor general.
	The course of this line is therefore N.89°55'W., and the distance 80.58.
	I destroy all marks on this cor.pertaining to T.2.S.
	Thence I run S.89°55'E., on a true line
	Along N.bdy.of sec.2.
	Descend over broken mountainous land through scattering timber and dense undergrowth.
5.68	Set an iron post,36 ins.long,3 in.in diam., 14 ins.in the ground, surrounded by a mound of earth and stone,for the cor.of secs.34 and 35,with brass cap marked
	T 2 S R 10 W S 34   S 35 T 3 S R 10 W
	1912
	A cedar,6 ins.diam.,bears N.20°W.,31 lks.dist., marked T 2 S R 10 W S 34 BT.
	No other trees available,raise a mound of stone,2 ft.base $1\frac{1}{2}$ ft.high W.of cor.
	Note.On account of natural obstacles it is impossible to set this post over 14 ins.in the ground.
8.00	Rocky canyon,200 ft.deep,course SE.
	Ascend over ledges and boulders.
28.00	Rocky spur,projects S.
	Descend abruptly.
40.00	Same canyon,course NE. Ascend.

## RESURVEY

SOUTH BOUNDARY OF T. 3 S., R. 10 W.

CHAINS

40.48

Intersect the  $\frac{1}{4}$  sec.cor. for secs. 2 and 35, heretofore described,

I destroy all marks on this cor. pertaining to T. 2 S.

48.68

Set an iron post, 36 ins. long, 1 in. in diam., 16 ins. in the ground, surrounded by a mound of stone, for  $\frac{1}{4}$  sec.cor., with brass cap, marked

 $\frac{1}{4}$  S 35

1912

and raise a mound of stone, 2 ft base,  $1\frac{1}{2}$  ft. high N. of cor.

Note; On account of natural obstacles it is impossible to set this cor. over 16 ins. in the ground.

50.00

Spur, projects N.

Descend.

72.70

Same canyon, 300 ft. deep, course S.  $60^{\circ}$  E.

Ascend.

78.00

Spur, projects S.

Descend.

80.58

The cor. of secs. 1 and 2.

Land, mountainous.

Soil, clay loam and loose rock, 12 ins. deep, 3rd rate.

Subsoil, rock.

Timber, cedar and pinon.

Undergrowth, sage and grass.

Rough mountainous land on 80.58 chs.

July 11, 1912.

July 12; 8h3m, a.m., l.m.t., I set off  $40^{\circ}36'N.$  on the lat. arc,  $22^{\circ}0'W.$  on the decl. arc, and determine a meridian with the solar at the cor. of secs. 2 and 3, heretofore described.

Thence I run

N.  $89^{\circ}54'W.$ , on a random line

Along the N. Bdy. of sect. 3..

Set temp.  $\frac{1}{4}$  sec.cor.

34.32

- CHAINS 38.48 Fall 10 lks.S.of the  $\frac{1}{4}$  sec.cor.,which is a 1 in.iron post,marked and witnessed as described by the surveyor general. ✓  
 The course of this line is therefore N. $89^{\circ}45'W.$ ,and the distance 38.48.chs.  
 I offset over the cor..  
 Thence I run  
 N. $89^{\circ}54'W.$ ,retracing along the N.bdy.ofsecs.3.  
 35.84 Set temp.cor.of secs.33 and 34.  
 39.97 Fall 6 lks.N.of the cor.of secs.3-4-33 and 34,which is a 3 in.iron post,marked and witnessed as described by the surveyor general. ✓  
 The course of this line is therefore west, and the distance 39.97.chs.  
 I destroy all markings on this cor.pertaining to T.2 S.  
 Thence I run  
 East, on a true line  
 Along,N.bdy.of sec.3.  
 .13 Descend over mountainous land through scattering timber and dense undergrowth.  
 4.13 Set an iron post,36 ins.long,3 in.in diam.,14 ins.in the ground,surrounded by a mound of stone and earth,for the cor. of secs.33 and 34,with brass cap,marked
- |               |
|---------------|
| T 2 S R. 10 W |
| S 33   S 34   |
| T 3 S R 10 W  |
- 1912 ✓
- and raise a mound of stone,2 ft.base, $1\frac{1}{2}$  ft.high,W.of cor.  
 Note;On account of natural obstacles it is impossible to set this post over 14 ins.in the ground.✓
- 23.00 Hollow,200 ft.deep,course NW.  
 Ascend.
- 39.97 Intersect the  $\frac{1}{4}$  sec.cor.forsecs.3 and 34,heretofore described.  
 I destroy all marks on the cor.pertaining to T.2 S.✓

## RESURVEY

SOUTH BOUNDARY OF T. 2 S., R. 10 W.

CHAINS

Thence I run S.  $89^{\circ}45' E.$ , with continuous measurement.

44.13 Set an iron post, 36 ins. long, 1 in. in diam., 20 ins. in the ground, surroundrd by a mound of stone and earth, for  $\frac{1}{4}$  sec.cor., with brass cap, marked

 $\frac{1}{4}$  S 34

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Note; On account of natural obstacles it is impossible to set this cor. over 20 ins. in the ground.

45.10 Perpendicular sandstone ledge, 75 ft. high, bears N. and S.

45.20 Cedar Ridge, 400 ft. high, bears NE. and SW.

Descend abruptly.

52.00 Head of hollow, 200 ft. deep, course S.

Ascend.

60.00 Ridge, bears NW. and SE.

Descend.

78.45 The cor. of secs. 2 and 3.

Land, mountainous.

Soil, clay loam and loose rock, 20 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar and pinon pine.

Undergrowth, sage brush and grass.

Mountainous land and land covered with dense undergrowth on 78.45 chs.

July 12: At the cor. of secs. 33 and 34, T. 2 S., R. 10 W., heretofore described, I set off  $21^{\circ}58' N.$  on the decl. arc, and at 0h5m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $40^{\circ}36' N.$

Notes: On account of being able to see the cors. west along the S.bdy. of the Tp, I run

West, along S.bdy. of sec. 33.

Ascend over mountainous land, through scattering timber

## RESURVEY SOUTH BOUNDARY OF T.2 S., R.10 W.

CHAINS	
	and dense undergrowth
4.13	The cor. of secs. 3 and 4, heretofore described. From this cor. the cors. west along the S.bdy. of the Tp. are visible and the course of this line is N.89°54'W. Therefore I run
	N.89°54'W., Bet. secs. 4 and 33, with continuous measurement.
4.70	Ridge, bears NW. and SE. Descend.
22.60	Hollow, 300 ft. deep, course NW. Ascend.
29.00	Ridge, bears NW. and SE. Descend.
40.00	Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the $\frac{1}{4}$ sec.cor.on S.bdy.of sec.33, with brass cap, marked

 $\frac{1}{4}$  S 33

1912

	A cedar, 7 ins. diam., bears North, 30 lks. dist., marked $\frac{1}{4}$ S 33 BT. No other trees available.
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high N; of cor.
44.37	The $\frac{1}{4}$ sec.cor. for secs. 4 and 33, which is an iron post, 1 in. in diam., marked and witnessed as described by the surveyor general.
	I destroy all marks on this cor.pertaining to T.2 S., R. 10 W.
50.00	Hollow, 200 ft. deep, course NW.
	Ascend.
53.30	Ridge, bears NW. and SE.
	Descend.
63.50	Hollow, 100 ft. deep, course NW.
	Ascend.
78.50	Spur, projects N.
	Descend.
80.00	Set an iron post, 36 ins. long, 3 ins. in diam., 24 ins. in

SOUTH BOUNDARY OF T. 2 S., R. 10 W.

CHAINS

the ground for the cor.of secs.32 and 33,with brass cap,marked

T 2 S R 10 W

S 32 | S 33

T 3 S R 10 W ✓

1912

A cedar,10 ins.diam.,bears N.78°E.,81 lks.dist.,  
marked T 2 S R 10 W S 33 BT. ✓

A cedar,6 ins.diam.,bears N.5°W.,90 lks.dist.,  
marked T 2 S R 10 W S 32 BT. ✓

Land,mountainous.

Soil,clay and sandy loam,24 ins.deep,2nd rate.

Subsoil,clay and loose rock.

Timber,cedar and pinon pine.

Undergrowth,sage brush and grass.

Mountainous land and land covered with dense undergrowth  
on 80.00 chs.

For reasons already explained,I run

N.89°54'W.,along S.bdy.of sec.32. ✓

Descend over mountainous land,through scattering timber  
and dense undergrowth. . .

4.58 Intersect the cor.of secs.4-5-32 and 33,which is an iron post,3 in.in diam.,marked and witnessed as described by the surveyor general. ✓

I destroy all marks on this cor.pertaining to T.2 S. ✓

40.00 Set an iron post,136 ins.long,1 in.in diam.,26 ins.in  
the ground for the  $\frac{1}{4}$  sec.cor.on the S.bdy.of sec.32,  
with brass cap,marked

$\frac{1}{4}$  S 32

✓

1912

A cedar,6 in.diam.,bears N.30°E.,64 lks.dist.,

## RE-SURVEY

SOUTH BOUNDARY OF T. 2 S., R. 10 W.

CHALIS

- marked  $\frac{1}{4}$  S 32 BT.  
No other trees available, raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high N. of cor. ✓
- 44.78 Intersect the  $\frac{1}{4}$  sec. cor. of secs. 5 and 32, which is an iron post, 1 in. in diam., marked and witnessed as described by the surveyor general. ✓  
I destroy all marks on this cor. pertaining to T 2 S.
- 47.85 Hollow, 75' deep, course NW.  
Ascend.
- 55.10 Ridge, bears NW. and SE.  
Descend.
- 59.00 Road, Clive to Quincy Springs, bears N.  $10^{\circ}$  W. and S.  $10^{\circ}$  E.  
Leave mountainous land, bears NW and SE., enter rolling land.
- ✓ 80.00 Set an iron post, 36 ins. long, 3 ins. in diam., 24 ins. in the ground, for the cor. of secs. 31 and 32, with brass cap, marked

T 2 S R 10 W

S 31 | S 32

T 3 S R 10 W

1912

A cedar, 6 ins. diam., bears N.  $16^{\circ}$  E., 13 lks. dist., marked T 2 S R 10 W S 32 BT. ✓

A cedar, 6 ins. diam. bears N.  $77^{\circ}$  W., 89 lks. dist., marked T 2 S R 10 W S 31 BT. ✓

Land, mountainous and rolling.

Soil, rocky clay and sandy loam, 2nd and 3rd rate, 24 ins. deep.

Subsoil, loose rock and clay.

Timber, cedar and pinon pine.

Undergrowth, sage brush and grass.

Mountainous land on 59.00 chs., gently rolling on the rest.

July 12, 1912.

RE SURVEY  
SOUTH BOUNDARY OF T. 2 S., R. 10 W.

CHAINS

July 13: At 8:35 a.m., l.m.t., I set off  $40^{\circ}36'N.$  on the lat.arc,  $21^{\circ}51'W.$  on the decl.arc, and determine a meridian with the solar at the cor. of secs. 31 and 32.

Thence I run

N.  $89^{\circ}54'W.$ , along S.bdy. of sec. 31.

Over gently rolling land through scattering timber and dense undergrowth.

4.88 Intersect the cor. of secs. 5-6-31 and 32, which is an iron post, 3 ins. in diam., marked and witnessed as described by the surveyor general.

I destroy all marks on this cor. pertaining to T. 2 S.

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the 1/4 sec.cor. on S.bdy. of sec. 31, with brass cap, marked

1/4 S 31

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

44.88 Intersect the 1/4 sec.cor. of secs. 6 and 31, which is an iron post, 1 in. in diam., marked and witnessed as described by the surveyor general.

I destroy all marks on this cor. that pertain to T. 2 S.

77.30 Leave scattering timber, bears NW. and SW.

84.88 The cor. of Tps. 2 and 3 S., Rs. 10 and 11 W., which is an iron post, 3 ins. in diam., marked and witnessed as described by the surveyor general.

Land, rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate.

Subsoil, clay and loose rock.

Timber, cedar and pinon pine.

Undergrowth, sage brush and grass.

Gently rolling land and land covered with dense undergrowth on 84.88 chs.

July 13, 1913.

## WEST. BOUNDARY OF T. 2 S.R. 10 W.

CHAINS	
	July 13: At the cor. of Tps. 2 and 3 S., Ps. 10 and 11 W., heretofore described, I set off $21^{\circ}49'N$ . on the decl. arc, and at 0h5m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ}36'N$ .
	Thence I run N.Bet.secs.31 and 36, along W.bdy.of Tp. Ascend over rolling land through dense undergrowth.
40.00	Set an iron post, 36 ins.long, 1 in.in diam., 26ins.in the ground for the $\frac{1}{4}$ sec.cor., with brass cap, marked
	$\frac{1}{4}$ S 31   S 36 1912
	and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor.
64.00	Low ridge, bears NW.and SE. Descend.
80.00	Set an iron post, 36 ins.long, 3 in.in diam., 24 ins.in the ground for the cor.of secs.25-30-31 and 36, with brass cap, marked
	T 2 S R 11 W R 10 W S 25   S 30 S 36   S 31 ✓ 1912
	dig pits, $18 \times 18 \times 12$ ins.in each sec. $5\frac{1}{2}$ ft.dist., ad raise a mound of earth, 4 ft.base, 2 ft.high, W.of cor. Land, rolling. Clay and sandy loam with loose rock, 3rd rate, 24 ins.deep. Subsoil, clay and loose rock. No timber. Undergrowth, sage and grass. Rolling land and land covered with dense undergrowth on 80.00 chs.

WEST BOUNDARY OF T. 2 S., R. 10 W.

**CHAINS**

North,

Bet. secs. 25 and 30.

Descend over rolling foot hills, through dense undergrowth.

9.30 Hollow, 200 ft. deep, course NW.

Enter heavy timber bears NW. and SE.

Ascend.

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 20 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec. cor., with brass cap,  
marked

$\frac{1}{4}$  S 25 | S 30

1912

from which

A cedar, 8 ins. diam., bears S.  $30^{\circ}$  E., 51 lks. dist.,  
marked  $\frac{1}{4}$  S 30 BT.

A cedar, 14 ins. diam., bears S.  $65^{\circ}$  W., 112 lks. dist.,  
marked  $\frac{1}{4}$  S 25 BT.

Note: On account of natural obstacles it is impossible to set this cor. over 20 ins. in the ground.

49.00 Spur, projects SW.

Descend.

60.00 Hollow, 150 ft. deep, course SW.

Ascend.

72.00 Spur, projects W.

Descend.

80.00 Set an iron post, 36 ins. long, 3 ins. in diam., 20 ins. in the ground, surrounded by a mound of earth and stone, for the cor. of secs. 19-24-25 and 30, with brass cap,

West Boundary of T. 2 S., R. 10 W.

CHAINS

marked

T 2 S

R 11 W R 10 W

S 24 | S 19

~~S 25~~ | S 30

R 11 W R 10 W

1912

from which

A cedar, 6 ins. diam., bears N.  $80^{\circ}30'$  E.,

273 lks. dist.,

marked T 2 S R 10 W S 19 BT.

A cedar, 14 ins. diam., bears S.  $25^{\circ}30'$  E.,

68 lks. dist.,

marked T 2 S R 10 W S 30 BT.

A cedar, 8 ins. diam., bears S.  $61^{\circ}45'$  W., 102  
lks. dist.

marked T 2 S R 11 W S 25 BT.

A cedar, 12 ins. in diam., bears N.  $78^{\circ}W.$ , 25  
lks. dist.

marked T 2 S R 11 W S 24 BT. ✓

Note: On account of natural obstacles it is impossible  
to set this corner over 20 ins. in the ground,  
therefore I set it firmly in a mound of stone  
and earth.

Land, rolling foot hills.

Soil, clay loam and sand, 24 ins. deep, 3rd rate, on the  
ridges.

Sandy loam with clay, 24 ins. deep, in the hollows.

Subsoil, clay and loose rock.

## WEST BOUNDARY OF T. 2 S., R. 10 W.

CHAINS

Timber, cedar.

Undergrowth, sage brush and grass.

Heavily timbered land on 70.70 chs.

July 13, 1912.

July 15: At 8h. 6m. a.m., l.m.t., I set off  $40^{\circ}37'W.$  on the lat.arc,  $31^{\circ}33'N.$  on the decl.arc, and determine a meridian with the solar at the cor. of secs. 19-24-25 and 30.

Thence I run

North, bet. secs. 19 and 24.

Descend over mountainous land, through scattering timber and dense undergrowth.

1.75 Hollow, 75' deep, course SW.

Ascend.

6.00 Top of ascent, thence over gently rolling bench land.

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec.cor., with brass cap, marked
$$\begin{array}{|c|c|} \hline \frac{1}{4} & S 24 | S 19 \\ \hline \end{array}$$

1912

dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

58.00 Leave scattering timber, bears NW. and SE.

80.00 Set an iron post, 36 ins. long, 3 ins. in diam., 24 ins. in the ground for the cor. of secs. 13-18-19 and 24, with brass cap, marked

T 2 S

R 11 W R 10 W

$$\begin{array}{|c|c|} \hline S 15 & S 18 \\ \hline \end{array}$$

$$\begin{array}{|c|c|} \hline S 24 & S 19 \\ \hline \end{array}$$

1912

dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base,  $2\frac{1}{2}$  ft. high, W. of cor.

Land, rolling and mountainous.

## WEST BOUNDARY OF T. 2 S., R. 10 W.

CHAINS	Soil, clay and sandy loam, 24 ins. deep, 3rd rate. Subsoil clay and loose rock. Timber, cedar. Undergrowth, sage brush and grass. Mountainous land on 6.00 chs., dense undergrowth on 80.00 chs.
40.00	North, bet. secs. 13 and 18. Over gently rolling land through dense undergrowth. Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor., with brass cap, marked  $\begin{array}{c c} \frac{1}{4} S & 13   S 18 \\ \hline & 1912 \end{array}$ dig pits 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
79.95	Road, Bears NE. and SW.
80.00	Set an iron post, 36 ins. long, 3 ins. in diam., 24 ins. in the ground for the cor. of secs. 7-12-13 and 18, with brass cap, marked  $\begin{array}{c} T 2 S \\ \hline R 11 W & R 10 W \\ S 12   . S 7 \\ \hline S 13 & S 18 \\ \hline & 1912 \end{array}$ Dig pits, 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, gently rolling. Soil, clay and sandy loam, 24 ins. deep, 2nd rate. Subsoil, clay. No timber. Undergrowth, sage brush and grass, Rolling land and dense undergrowth on 80.00 chs. July 15: At this cor. I set off 21°31' N. on the decl. arc, and at 40.6m.p.m., l.m.t., observe the sun on the meridian the resulting lat. is 40°39' N.

WEST BOUNDARY OF T. 2 S., R. 10 W.

Chains

North, bet. secs. 7 and 12.  
Over gently rolling land through dense undergrowth.

40.00

Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in  
the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 12 | S 7

1912 ✓

dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist., and  
raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00

Set an iron post, 36 ins. long, 3 ins. in diam. 24 ins. in the  
ground for the cor. of secs. 1-6 & 7 and 12, with brass cap  
marked

T 2 S

R 11 W R 10 W

S 1	S 6
-----	
S 12	S 7

1912

dig pits, 18x18x12 ins. in each sec.,  $5\frac{1}{2}$  ft. dist., and raise  
a mound of earth, 4 ft. base, 2 ft. high W. of cor.

Land, gently rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate.

Subsoil, clay.

No timber.

Undergrowth, sage brush and grass.

Gently rolling land, or land covered with dense undergrowth  
on 80.00 chs.

North, bet. secs. 1 and 6.

Over gently rolling land through dense undergrowth.

3.50

Wash, 20 lks. wide, 6 ft. deep, course NW.

7.00

Enter scattering timber, bears E. and W.

38.50

Wash, 15 lks. wide, 4 ft. deep, course NW.

40.00

Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the  
ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 1 | S 6 ✓

## WEST. BOUNDARY OF T.2 S., R.10.W.

CHAINS	dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
74.00	Leave scattering timber, bears E. and W.
80.00	Set temporary cor. of Tps. 1 and 2 S., Rs. 10 and 11 W. in Land, gently rolling. Soil, clay and sandy loam, 24 ins. deep, 2nd rate. Subsoil, clay. Timber, cedars. Undergrowth, sage brush and grass. Gently rolling land or land covered with dense undergrowth on 80.00' chs.
	July 15, 1912.

## NORTH. BOUNDARY OF T.2 S., R.10 W.

July 16: At 8h. 6m., a.m., l.m.t., I set off  $40^{\circ}41'N.$  on the lat. arc,  $21^{\circ}23'N.$  on the decl. arc, and determine a meridian with the solar at the cor. of Tps. 1 and 2 S., Rs. 9 and 10 W., which is a quartzite stone, 6x10x5 ins. above ground, marked and witnessed as described by the surveyor general. Thence I run

West, on a random line, along the N. bdy. of T.2 S., R.10 W., setting temporary  $\frac{1}{4}$  sec. and sec. cors. at intervals of 40.00 chs.; and at 484.26 chs., intersect the W. bdy. of the Tp. 30 lks. S. of the temp. cor. of Tps. 1 and 2 S., Rs. 10 and 11 W.

The falling answers to a correction of  $0^{\circ}02'$ , or 5 lks. S. per mile, counting from the NE. cor. of the Tp. Therefore I establish temp. cor. of Tps. 1 and 2 S., Rs. 16 and 11 W., as true cor. by setting an iron post, 36 ins. long, 3 ins. diam., 24 ins. in the ground, with brass cap, marked

T 1 S	
R 11 W	R 10 W
S 36	S 31

S 1	S 6
R 11W	R 10 W

T 2 S

1912

## NORTH BOUNDARY OF T.2 S., R.10 W.

CHAINS

dig pits, 24x24 x12 ins., on eachline, N., E., and W., 4 ft. and S. of post, 8 ft. dist. and raise a mound of earth, 5 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.

July 16, 1912.

July 17: At 8h. 6m., a.m., l.m.t., I set off  $40^{\circ}41'N.$  on the lat.arc,  $21^{\circ}13'N.$  on the drel.arc, and determine a meridian with the solar at the cor.of Tps.1 and 2, S., R. 10 and 11 W.

Thence I run

S.  $89^{\circ}58'E.$ , bet.secs. 6 and 31.

Over gently rolling land, through dense undergrowth.

7.90 Wash, 50 lks.wide, 10 ft. deep, course NW.

14.80 Sand ridge, 40 ft. high, bears NW. and SE.

17.30 Road, Clive to Quincy Springs, bears NW. and SE.

44.26 Set an iron post, 36 ins.long, 1 in.in diam., 26 ins.in the ground for the  $\frac{1}{4}$  sec.cor., with brass capmarked $\frac{1}{4}$  S 31

S 6

1912

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

72.00 Wash, 1 ch.wide, 30 ft. deep, course NW.

80.20 Same wash, course SW.

84.26 Set an iron post, 36 ins.long, 3 ins.diam., 24 ins.in the ground for the cor.ofsecs. 5-6-31 and 32, with brass cap, marked

T 1 S R 10 W

S 31 | S 32

S 6 | S 5

T 2 S R 10 W

1912

dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise

NORTH BOUNDARY OF T.2 S., R.10 W.

CHAINS

a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
 Land, gently rolling.  
 Soil, clay and shifting sand, 24 ins deep, 3rd rate.  
 Subsoil, clay.  
 No timber.  
 Undergrowth, sage brush and grass.  
 Rolling land or land covered with dense undergrowth on  
 84.26 chs.

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S.89°58'E., bet. secs. 5 and 32.  
 Over gently rolling land through dense undergrowth.  
 8.80 Wash, 4 chs. wide, 50 ft. deep, course N.30°W.  
 40.00 Set an iron post, 36 ins. long, 1 in. in diam. 26 ins. in the  
 ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked  
 $\frac{1}{4} S\ 32$   


---

 S 5 ✓  
 1912  
 dig pits, 18x18x12 ins., E. and W., of post, 3 ft. dist., and  
 raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.  
 42.40 Wash, 50 lks. wide, 30 ft. deep, course N.30°W.  
 54.00 Wash, 1 ch. wide, 10 ft. deep, course N.30°W.  
 80.00 Set an iron post, 36 ins. long, 3 ins. in diam., 24 ins. in  
 the ground for the cor. of secs. 4-5-32 and 33, with brass  
 cap, marked

T 1 S R 10 W		
S 32	S 33	
+		
S 5	S 4	
T 2 S R 10 W ✓		

1912

dig pits 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise  
 a mound of earth, 4 ft. base, 2 ft. high W. of cor.  
 Land, rolling.  
 Soil, sandy and clay loam, 24 ins. deep, 2nd rate.  
 Subsoil, clay.

## CHAINS

No timber

Undergrowth, sage brush and grass,

Rolling land or land covered with dense undergrowth on 80.00 chs.

July 17: At this cor. I set off  $21^{\circ}11'N.$  on the decl. arc, and at 0h. 6m., p.m., l.m.t., observe the sun on the meridian the resulting lat. is  $40^{\circ}41'N.$

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S.  $89^{\circ}58'E.$ , bet. secs. 4 and 33.

Over gently rolling land through dense undergrowth.

1.80 Road, low to Quincy Springs, bears NE. and SW.

4.90 Wash, 20 lks. wide, 6 ft. deep course NW.

30.20 Road, bears NE. and SW.

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 33

---

S 4

1912

dig pits, 18x18x12 ins., E. and W., of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.

80.00 Set an iron post, 36 ins. long, 3 ins. in diam., 24 ins. in the ground for the cor. of secs. 3-4-33 and 34, with brass cap, marked

T 1 S R 10 W.

S 33	S 34
S 4	S 3

T 2 S R 10 W.

1912

dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd. rate.

Subsoil, clay.

## NORTH BOUNDARY OF T. 2 S., R. 10 W.

CHAINS	
	No timber.
	Undergrowth, sage brush and grass.
	Rolling land or land covered with dense undergrowth on 80.00 chs.
	S89°58'E., bet. secs. 3 and 34.
10.20	Over gently rolling land through scattering undergrowth.
	Leave gently rolling land, bears N. and S., ascend abruptly, over mountainous land.
15.00	Ridge, bears NW. and SE.
	Descend.
19.50	Enter heavy timber, bears N. and S.
39.50	Head of hollow, 75 ft. deep, course NW.
	Ascend.
40.00	Set an iron post, 36 ins. long, 1 in. in diam., 20 ins. in the ground, surrounded by a mound of earth and stone, for the $\frac{1}{4}$ sec. cor., with brass cap, marked
	4 S 34
	—
	S 3
	1912
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
51.50	Ridge, bears NE. and SW.
	Descend.
55.60	Head of hollow, 100 ft. deep, course SE.
	Ascend.
65.60	Spur, projects SW. Leave heavy timber, bears N. and S., enter scattering timber and dense undergrowth. Descend, abruptly.
80.00	Set an iron post, 36 ins. long, 3 ins. in diam., 14 ins. in the ground, surrounded by a mound of earth and stone, for the cor. of secs. 2-3-34 and 35, with brass cap, marked
	T 1 S R 10 W. S 34   S 35 : — — S 3   S 2 T 2 S R 10 W.
	1912

## NORTH BOUNDARY OF T.2 S., R.10 W.

CHAINS

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Note: On account of natural obstacles it is impossible to set this post over 14 ins. in the ground. ✓

Land, rolling and mountainous.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate, on rolling portion, clay and loose rock on mountainous portion.

Subsoil, clay.

Timber, cedar,

Undergrowth, shadscale, sage brush and grass.

Mountainous land on 69.80 chs.

July 17. 1912.

July 18: At 8h. 6m., a.m., l.m.t., I set off  $40^{\circ}41'$  N. on the lat. arc,  $21^{\circ}03'$  N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 2-3-34 and 35.

Thence I run

S.  $89^{\circ}58'$  E., bet. secs. 2 and 35.

Descend over mountainous land through scattering timber and dense undergrowth.

1.90 Hollow, 150 ft. deep, course SW.

Ascend.

20.75 Cedar Ridge, 300 ft. high, bears NW. and SE.

Descend abruptly.

28.80 Head of hollow, 200 ft. deep, course N.

Ascend.

37.20 Ridge, bears N. and S.

Descend.

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 35

✓  
S 2

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

## NORTH.BOUNDARY OF T.2 S., R.10 W.

CHAINS	
40.10	Head of hollow, 30 ft. deep, course SE. Ascend.
54.80	Ridge, bears NW. and SE. Descend.
60.00	Head of hollow, 50 ft. deep, course NW. Ascend.
70.00	Ridge, bears NE. and SW. Descend.
80.00	Set an iron post, 36 ins. long, 3 ins. in diam., 14 ins. in the ground, surrounded by a mound of stone and earth, for the cor. of secs. 1-2-35 and 36, with brass cap, marked  T 1 S R 10 W  S 35   S 36 ----- / S 2   S 1  T 2 S R 10 W  1912 from which
	A cedar, 12 ins. diam., bears N. $42^{\circ}$ E., 9 lks. dist., marked T 1 S R 10 W S 36 BT.
	A cedar, 6 ins. diam., bears S. $4^{\circ}30'$ E., 55 lks. dist., marked T 2 S R 10 W S 1 BT.
	A cedar, 12 ins. diam., bears S. $35^{\circ}30'$ W., 32 lks. dist., marked T 2 S R 10 W S 2 BT.
	A cedar, 16 ins. diam., bears N. $74^{\circ}$ W., 46 lks. dist., marked T 1 S R 10 W S 35 BT.
	Note: On account of natural obstacles it is impossible to set this cor. over 14 ins. in the ground.
	Land, mountainous.
	Soil, clay and loose rock, 3rd rate, 14 ins. deep.
	Subsoil, loose rock.
	Timber, cedar.
	Undergrowth, sage and buck brush, with grass.
	Mountainous land on 80.00 chs.
	July 18: At this cor. I set off $21^{\circ}01'N.$ on the decl. arc, and at Oh. 6m., pm., l.m.t., observe the sun on the meridian the resulting lat. is $40^{\circ}41'N.$

## NORTH.BOUNDARY.OF T.2 S.,R.10 W.

CHAINS

S.89°58'E.,bet.sec.1 and 36.

Descend over mountainous land through scattering timber and dense undergrowth.

5.00 Hollow, 75 ft. deep, course SE.

Ascend.

12.00 Ridge, bears NW. and SE.

Descend abruptly.

34.00 Leave scattering timber, bears N. and S.

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 14 ins. in the ground, surrounded by a mound of stone and earth, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked $\frac{1}{4}$  S 36

S 1

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Note: On account of natural obstacles it is impossible to set this cor. over 14 ins. in the ground. ✓

44.40 Redland Springs Hollow, 400 ft. deep, course SE.

Ascend.

55.00 Spur, projects S.

Descend.

60.00 Hollow, 50 ft. deep, course SW.

Ascend.

71.00 Ridge, bears N. and S.

Descend.

80.00 The cor. of Tps. 1 and 2 S., Rs. 9 and 10 W.

Land, mountainous.

Soil, clay and loose rock, 14 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage and rabbit brush with grass.

Mountainous land on 80.00 chs.

July 18, 1912.

## RETRACEMENT E.BOUNDARY OF T.2 S., R.10 W.

CHAINS	
	July 19: At 8 h. 6m., a.m., l.m.t., I set off $40^{\circ}36'N.$ , on the lat.arc, $20^{\circ}52'N.$ on the decl.arc, and determine a meridian with the solar at the cor. of Tps. 2 and 3 S., Rs. 9 and 10 W., heretofore described.
	Thence I run
	North, retracing along E.bdy.of Tp.
	Bet.secs.31 and 36.
	Over gently rolling land through dense undergrowth.
22.00	Wash, 50 lks.wide, 10 ft.deep, course E.
40.04	Fall 2 lks.W. of the $\frac{1}{4}$ sec.cor., which is a sandstone, 10x8x4 ins. above ground, marked and witnessed as described by the surveyor general.
65.00	Low ridge, bears NE. and SW.
75.00	Enter scattering timber., bears E. and W.
79.00	Leave scattering timber, bears E. and W.
80.23	Fall 4 lks.W. of the cor.of secs.25-30-31 and 36, which is a quarzite stone, 11x7x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. The course of this line is therefore $N.0^{\circ}02'E.$ , and the distance 80.23.chs.
	Land, rolling.
	Soil, clay and sandy loam, 12 ins.deep, 2nd rate, subsoil, clay and loose rock.
	Timber, cedar.
	Undergrowth, sage brush and grass.
	Rolling land or land covered with dense undergrowth on 80.23 chs.
	July 19: At this cor. I set off $20^{\circ}50'N.$ on the decl.arc, and at Oh.6m., p.m., l.m.t., observe the sun on the meridian, the resulting lat.is $40^{\circ}36'30"N.$ .

	North, retracing, bet.secs.25 and 30.
	Over gently rolling land, through dense undergrowth.
40.12	Fall 2 lks.W. of the $\frac{1}{4}$ sec.cor., which is a quarzite stone 8x10x4 ins., above ground, firmly set, marked and witnessed

RETRACEMENT EAST BOUNDARY OF T.2 S., R.10 W.

CHAINS

as described by the surveyor general.

40.25 Road, bears E. and W.

70.15 Wash, 40 lks, wide, 50 ft. deep, course NE.

80.17 Fall 4 lks. W. of the cor. of secs. 19-24-25 and 30, which is a sand stone, 10x10x8 ins. above ground, firmly set, marked and witnessed as described by the surveyor general. The course of this line is therefore N $^{\circ}$ 02'E. and the distance 80.17 chs.

Land, rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate, subsoil, clay.

No timber.

Undergrowth, sage brush and grass.

Rolling land or land covered with dense undergrowth, on 80.17 chs.

North, retracing, bet. secs. 19 and 24.

Over gently rolling land through dense undergrowth.

4.00 Wash, 1 ch. wide, 6 ft. deep, course E. Enter scattering timber.

40.14 Fall 2 lks. W. of the cor. sec. cor., which is a sandstone, 8x10x4 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

80.16 Fall 5 lks. W. of the cor. of secs. 13-18-19 and 24, which is a sand stone 8x7x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.

The course of this line is therefore N. 0 $^{\circ}$ 02'E., and the distance 80.16.

Land, rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate.

Subsoil, clay. No timber.

Undergrowth, sage brush and grass.

Rolling land or land covered with dense undergrowth on 80.16 chs.

## RETRACEMENT EAST. BOUNDARY OF T. 2 S., R. 10 W.

CHAINS	
	July 20: At 8h. 6m., a.m., l.m.t., I set off $40^{\circ}38'N.$ , on the lat.arc, $20^{\circ}41'N.$ on the decl.arc, and determine a meridian with the solar at the cor.of secs. 13-18-19 and 24. Thence I run North, retracing, bet.secs. 13 and 18. Over gently rolling land through scattering timber and dense undergrowth.
29.50	Road, Redland Springs to Delle, bears NE. and SW.
33.20	Wash, 40 lks. wide, 5 ft. deep, course NE.
40.09	Fall 2 lks. W. of the $\frac{1}{4}$ sec.cor., which is a sand stone, 10x8x5 ins. above ground, firmly set marked and witnessed as described by the surveyor general.
76.00	Leave gently rolling land, bears NE. and SW., ascend over steep mountainous land.
80.17	Fall 5 lks. W. of the cor.of secs. 7-12-13 and 18, which is a lime stone, 12x10x5 ins. above ground, firmly set,marked and witnessed as described by the surveyor general. The course of this line is therefore, $N.0^{\circ}02'E.$ , and the distance 80.17. Land, rolling and mountainous. Soil, clay and sandy loam, 24 ins. deep, 2nd rate, on rolling portion, clay loam and loose rock on the rest. Subsoil, clay and loose rock. Timber, cedar. Undergrowth, sage brush and grass. July 20: At this cor. I set off $20^{\circ}39'N.$ , on the decl.arc, and at 0h. 6m., p.m., l.m.t., observe the sun on the meridian, the resulting lat.is $40^{\circ}39'N.$
6.50	North, retracing, bet.secs. 7 and 12. Ascend over mauntainous land through scattering timber and dense undergrowth. Ridge, bears E. and W. Descend abruptly.

RETRACEMENT EAST BOUNDARY OF T. 2 S., R. 10 W.

Chains	
10.40	Head of hollow, 200 ft. deep, course E. Ascend.
15.30	Ridge, bears NW. and SE. Descend.
27.90	Hollow, 150 ft. deep, course E. Ascend.
29.00	Ridge, bears SE. and NW. Descend.
40.07	Fall 3 lks. W. of the $\frac{1}{4}$ sec. cor., which is a sand stone, 8x6x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
43.60	Descend abruptly.
45.00	Redland Springs Hollow, 200 ft. deep, course SE. Ascend abruptly.
53.60	Top of abrupt ascent, ascend gradually.
80.08	Fall 5 lks. W. of the cor. of secs. 1, 6, 7 and 12, which is a sand stone 10x6x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.  The course of this line is therefore N.0°02'E., and the distance 80.08 chs.  Land, mountainous. Soil, clay and loose rock, 24 ins. deep, 3rd rate. Subsoil, clay and loose rock. Timber, cedar. Undergrowth, sagebrush and grass. Mountainous land on 80.08 chs.
15.30	North, retracing bet. secs. 1 and 6. Ascend over mountainous land, through scattering timber and dense undergrowth. Spur, projects E. Descend. Head of hollow, 200 ft. deep, course SE. Ascend.

RETRACEMENT EAST BOUNDARY OF T. 2 S., R. 10 W.

Chains	
34.00	Ridge, bears NW. and SE. Descend.
39.97	Fall 2 lks. W. of the $\frac{1}{4}$ sec. cor., which is a quartzite stone, 12x6x6 ins. above ground, firmly set, marked and witnessed as described by the surveyor general.
63.40	Hollow, 150 ft. deep, course SE. Ascend.
79.86	Fall 4 lks. W. of the cor. of Tps. 1 and 2 S., Rs. 9 and 10 W. The course of this mile is therefore N. $0^{\circ}02' E.$ , and the distance 79.86 chs. Land, mountainous. Soil, clay and loose rock, 24 ins. deep, 3rd rate. Subsoil, looss rock. Timber, cedar. Undergrowth, sagebrush and grass. Mountainous land on 79.86 chs.

July 20, 1912.

BOUNDARIES OF T. 2 S., R. 10 W.

Latitudes, Departures and Closing Errors.

Line Designated	True Bearing	Distance	Latitudes. N.      S.	Departures. E.      W.	
S. Boundary		Chs.	Chs.	Chs.	Chs.
	N. $89^{\circ}56' W.$	85.10	.10		85.10
	N. $89^{\circ}55' W.$	80.58	.12		80.58
	N. $89^{\circ}45' W.$	38.48	.17		38.48
	West,	39.97			39.97
	N. $89^{\circ}54' W.$	240.75	.42		240.75
W.	" North,	480.00	480.00		
N.	" S. $89^{\circ}58' E.$	484.26		.28	484.26
E.	" S. $0^{\circ}02' W.$	480.67		480.67	.28
Convergency		0.61			.61
	Totals		480.81	480.95	484.87
				480.81	484.87
	Error in Latitude		.14	Error in Dep.	.29

For general description of Tp. see Subdivisions of

T. 2 S., R. 10 W.

*John Stewart*  
U. S. Surveyor.

4

East bdy.T.1 S., R.10 W.-Continued.

Chains

Survey commenced July 30, 1912, and executed with Young and Sons, light mountain transit, No. 8515, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah on June 7, 1912.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation; I proceed as follows: At the corner of Townships 1 and 2 South, Ranges 9 and 10 West, heretofore described, latitude  $40^{\circ}40'00''$  N., longitude  $112^{\circ}55'09''$  W., I set off  $40^{\circ}41'N.$ , on the lat. arc;  $18^{\circ}26'W.$ , on the decl. arc; and at 5 h 6 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereon on a stone firmly set in the ground, 5.00 chs. N. of the cor.

At 10 h 59 m p.m., l.m.t., I observe Polaris at eastern elongation in accordance with the Manual, and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor.

July 50, 1912.

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July 31, 1912. At 6 h 50 m a.m., l.m.t., I lay off the azimuth of Polaris  $1^{\circ}31'$  to the west, and mark a point in the meridian thus determined by cutting a small groove in the stone, already set 5.00 chs. N. of the cor.; this mark falls 0.32 ins. east of the meridian established by the solar.

At 7 h 6 m a.m., l.m.t., I set off  $40^{\circ}41'N.$ , on the lat. arc;  $18^{\circ}W.$ , on the decl. arc; and mark the meridian determined by

East bdy.T.1 S., R.10 W.-Continued.

Chains	<p>the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.35 ins. east of the meridian determined by the Polaris observations.</p> <p>The solar apparatus, by p.m. and a.m. observations defines positions for meridians, respectively about 0'17" west and 0'18" east of the meridian determined by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.</p> <p>The magnetic bearing of the meridian, at 7 h 30 m a.m., is N.16°50' W.; the angle thus determined gives the mag. decl. 16°50' E.</p>			
	<p>From the cor. of Tps. 1 and 2 S., Rs. 9 and 10 W., I run North, bet. secs. 31 and 36.</p> <p>Over mountainous land; through scattering timber and scattering undergrowth.</p> <p>Asc.</p>			
23.60	<p>Top of ridge, 300 ft. above cor., bears N.70°W. and S.70°E.</p> <p>Desc.</p>			
27.50	<p>Bottom of hollow, 100 ft. below ridge, course S.70°E.</p> <p>Asc.</p>			
39.00	<p>Top of ridge, 200 ft. above hollow, bears E. and W.</p> <p>Desc.</p>			
40.00	<p>Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, and surrounded by mound of stone, for <math>\frac{1}{2}</math> Sec.cor.. with brass cap Mkd.</p>			
	<table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center; padding: 5px;">S 36</td> <td style="text-align: center; padding: 5px;"><math>\frac{1}{2}</math></td> <td style="text-align: center; padding: 5px;">S 31 ✓</td> </tr> </table> <p style="text-align: center;">1912.</p>	S 36	$\frac{1}{2}$	S 31 ✓
S 36	$\frac{1}{2}$	S 31 ✓		
	<p>From which</p> <p>A cedar, 10 ins. dia., bears S.45°E., 48 lks. dist..mkd.<math>\frac{1}{2}</math> S 31 B T.</p> <p>A cedar, 10 ins. dia., bears N.61°W., 20 lks. dist..mkd.<math>\frac{1}{2}</math> S 36 B T.</p> <p>80.00 Point 300 ft. below ridge.</p>			

3

East bdy.T.1 S., R.10 W.-Continued.

Chains

Set an iron post, 3 ft. long, 3 ins. in dia., 18 ins. in the ground, on rock, and surrounded by mound of stone, for cor. of secs. 25, 30, 31, and 36, mkd. on brass cap

T 1 S	
R 10 W	R 9 W
S 25	S 30
S 36	S 31

1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Land, mountainous.

Soil, sandy and clay loam mixed with some rock; 3rd rate. Subsoil gravel and rock.

Timber, cedar

Undergrowth, sage brush.

Good grass.

Mountainous land, or land covered with dense undergrowth, 80.00 chs.

July 31, 1912: At this cor. I set off  $18^{\circ}14'N.$ , on the decl. arc; and at 0<sup>h</sup> 6 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}42'N.$ , which is the proper lat. nearly.

North, bet. secs. 25 and 30.

Over mountainous land; through scattering timber and scattering undergrowth.

Desc.

.25 Old road, bears NW and SE.

5.00 Canon, 30 ft. below cor., course SE.

Asc. abruptly.

40.00 Set an iron post, 3 ft. long, 1 in. in dia. 12 ins. in the ground, on rock, and surrounded by mound of stone, for sec. cor., mkd. on brass cap

1	
S 25	S 30

1912.

From which

A cedar, 7 ins. dia., bears E. 43 lks. dist.

\$

East bdy.T.1 S., R.10 W.-Continued.

Chains	dist.mkd. $\frac{1}{2}$ S 30 E T.								
	A cedar, 8 ins.dia., bears S.70°W., 15 lks.								
	dist..mkd. $\frac{1}{2}$ S 25 E T.								
53.00	Top of spur, 400 ft.above canon,bears E.and W.								
	Desc.								
58.60	Bottom of hollow, 160 ft.below spur,course W.								
	Asc.								
80.00	Set an iron post, 3 ft.long, 3 ins.in dia., 18 ins.in the ground, on rock, and surrounded by mound of stone, for cor.of secs.19,24,25, and 30, with brass cap mkd.								
	<table border="0"> <tr> <td>T 1 S</td> <td></td> </tr> <tr> <td>R 10 W</td> <td>R 9 W</td> </tr> <tr> <td>S 24</td> <td>S 19</td> </tr> <tr> <td>S 25</td> <td>S 30</td> </tr> </table>	T 1 S		R 10 W	R 9 W	S 24	S 19	S 25	S 30
T 1 S									
R 10 W	R 9 W								
S 24	S 19								
S 25	S 30								
	1912.								

From which

A cedar, limb , 10 ins.dia., bears N.52°E., 76 lks.dist..mkd.T 1 S R 9 W S 19 B T.

A cedar, 10 ins.dia., bears S.58°E., 84 lks.

dist..mkd.T 1 S R 9 W S 30 B T.

A cedar, 6 ins.dia., bears S.48°W., 67 lks.

dist..mkd.T 1 S R 10 W S 25 B T.

A cedar, 10 ins.dia., bears N.40°W., 88 lks.

dist..mkd.T 1 S R 10 W S 24 B T.

Land, mountainous, steep and rough and covered with lime rock.

Soil, clay mixed with rock about 1 ft.deep.

Subsoil, rock and gravel.

Timber, a few scattering cedars .

Undergrowth, sage brush..

Good grass for grazing.

July 31, 1912.

August 2, 1912: At 7 h 6 m a.m., l.m.t., I set off 40°45'N., on the lat.arc; 17°50'W., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.19,24,25, and 30.

5

E.bdy.T.1 S., R.10 W.-Continued.

## Chains

Thence I run

North, bet. secs. 19 and 24.

Over mountainous land; through scattering timber and dense undergrowth.

Asc.

3.00 Top of ridge, 50 ft. above cor., bears E. and W.

Desc. abruptly.

25.00 Bottom of hollow, 300 ft. below ridge, course W.

Asc.

35.00 Top of ridge, 300 ft. above hollow, bears NW. and SE.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

S 24	S 19
------	------

1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

64.00 Bottom of hollow, 400 ft. below ridge, course N. 80°W.

Asc.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 18, 19, and 24, with brass cap mkd.

T 1 S	
R 10 W	R 9 W
S 15	S 18
S 24	S 19

1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Land, mountainous.

Soil, clay and sandy loam mixed with rock about 1 ft. deep. Timber, cedar.

Undergrowth, sage brush.

Good grass.

Mountainous land, or land covered with dense undergrowth.

80.00 chs.

August 2, 1912: At this cor. I set off  $17^{\circ}44'N.$ , on the decl. arc; and at 0 h 6 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}44'N.$ , which is the proper lat. nearly.

East bdy.T.1 S., R.10 W.-Continued.

Chains

North, bet. secs. 13 and 18.

Over mountainous land; through scattering timber and scattering undergrowth.

Asc.

5.40 Ridge, 100 ft. above cor., bears N.80°W. and S.80°E.

Desc.

10.20 Bottom of hollow, 100 ft. below ridge, course W.

Asc.

21.10 Top of ridge, 130 ft. above hollow, bears N.80°W. and S.80°E.

Desc.

28.00 Bottom of hollow, 100 ft. below ridge, course W.

Asc.

33.80 Top of spur, 90 ft. above hollow, bears E. and W.

Desc.

37.70 Bottom of hollow, 100 ft. below ridge, course W.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on rock, and surrounded by mound of stone, for.

$\frac{1}{4}$  sec. cor. with brass cap mkd.

S 13 | S 18  
1912.

From which

A cedar, 12 ins. dia., bears S.28°E., 72 lks.

dist..mkd. $\frac{1}{2}$  S 18 B T.

A cedar, 8 ins. dia., bears N.77°W., 71 lks.

dist..mkd. $\frac{1}{2}$  S 13 B T.

41.00 Top of spur, 90 ft. above hollow, bears N.75°W. and S.75°E.

Desc.

58.35 Old road, bears N.40°E. and S.40°W.

58.75 Bottom of hollow, 200 ft. below ridge, course S.40°W.

Asc.

75.30 Top of ridge, 40 ft. above hollow, bears NE and SW.

Desc.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, with brass cap mkd.

East bdy.T.I S., R.10 W.-Continued.

Chains

	T 1 S
R 10 W	R 9 W
S 12	S 7
S 13	S 18

1912.

From which

A cedar, 18 ins.dia., bears N.40°E., 83 lks.

dist..mkd.T 1 S R 9 W S 7 E T.

A cedar, 6 ins.dia., bears S.31°E., 58 lks.

dist..mkd.T 1 S R 9 W S 18 E T.

A cedar, 7 ins.dia., bears S.40°30'W., 157 lks.

dist..mkd.T 1 S R 10 W S 13 E T.

No other trees within limits; raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Land, mountainous.

Soil, gravelly 2nd rate about 2 ft. deep.

Subsoil hard gravel.

Timber, cedar.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, \$0.00 chs.

August 2, 1912.

August 3, 1912: At 7 h 6 m a.m., l.m.t., I set off  $40^{\circ}44'N.$ , on the lat.arc;  $17^{\circ}35'W.$ , on the decl.arc; and determine a meridian with the solar, at the cor.of sees.7,12,13, and 18.

Thence I run

North, bet.sees.7 and 12.

Over mountainous land; through scattering timber and under growth.

Desc.

4.70 Bottom of hollow, 50 ft. below sec.cor., course S.30°W.

Asc.

21.00 Top of spur, 100 ft. above hollow, bears N.70°W. and S.70°E.

Desc.

8

East bdy.T.J. S., R.10 W.-Continued.

Chains 26.00	Bottom of hollow, 40 ft. below ridge, course S.70°E.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on rock, and surrounded by mound of stone, for $\frac{1}{2}$ sec. cor. with brass cap mkd.
	$\begin{array}{ c c } \hline S & 12 \\ \hline S & 7 \\ \hline \end{array}$ 1912.
	From which-
	A cedar, 4 ins. dia., bears N.16°30'E., 45 lks. dist..mkd. S 7 B T.
	A cedar, 6 ins. dia., bears S.24°W., 35 lks. dist..mkd. S 12 B T.
58.20	Top of ridge, 100 ft. above hollow, bears N.80°W. and S.80°E. and S.30°W.
	Desc.
62.10	Bottom of hollow, 40 ft. below ridge, course N.50°W.
	Asc.
68.00	Top of spur, 50 ft. above hollow, bears N.70°W. and S.70°E.
	Desc.
71.00	Bottom of hollow, 40 ft. below ridge, course S.80°W.
	Asc.
73.00	Top of spur, 60 ft. above hollow, bears NW and SE.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, with brass cap mkd.
	$\begin{array}{ c c } \hline T & 1 \\ \hline S & \\ \hline R & 10 & W \\ \hline R & 9 & W \\ \hline S & 1 & \\ \hline \end{array}$ $\begin{array}{ c c } \hline S & 6 \\ \hline \end{array}$ $\begin{array}{ c c } \hline S & 12 \\ \hline S & 7 \\ \hline \end{array}$ 1912.
	From which-
	A cedar, 10 ins. dia., bears S.6°E., 76 lks. dist..mkd. T 1 S R 9 W S 7 B T.
	A cedar, 4 ins. dia., bears S.42°W., 88 lks. dist..mkd. T 1 S R 10 W S 12 B T.
	A cedar, 6 ins. dia., bears N.74°W., 119 lks. dist..mkd. T 1 S R 10 W S 1 B T.
	Dig a pit, 18x18x12 ins. in sec. 6, $5\frac{1}{2}$ ft. dist; and raise a mound of earth, 2 ft. base, $1\frac{1}{2}$ ft. high, w. of cor.
	No other tree within limits.

9

East bdy.T.1 S., R.10 W.-Continued.

Chains	
	Land mountainous ..
	Soil, gravelly about 2 ft. deep; 2nd rate.
	Subsoil, gravel.
	Timber, cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, 80.00 chs.
	August 3, 1912: At this cor. I set off $17^{\circ}28'N.$ , on the decl. arc; and at 0 h 6 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $40^{\circ}45'N.$ , which is the proper lat. nearly.
	North, bet. secs. 1 and 6.
	Over mountainous land; through scattering timber and dense sage brush.
	Desc.
6.00	Bottom of hollow, 30 ft. below cor., course N. $20^{\circ}W.$ .
	Asc.
26.45	Top of ridge, 90 ft. above hollow, bears N. $50^{\circ}W.$ and S. $50^{\circ}E.$
	Desc.
38.40	Bottom of hollow, 100 ft. below ridge, course NW.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1 sec. cor... mkd. on brass cap
	S. 1   S. 6 ✓ 1912.
	From which
	A cedar, 5 ins. dia., bears N. $28^{\circ}E.$ , 91 lks. dist.. mkd. 1 S 6 B T.
	A cedar, 10 ins. dia., bears N. $22^{\circ}W.$ , 188 lks. dist.. mkd. 1 S 1 B T.
72.20	Top of spur, 50 ft. above hollow, bears E. and W.
	Desc.
74.00	Bottom of hollow, 30 ft. below spur, course W.
	Asc.

East bdy.T.1 S.,R.10 W.-Continued.

Chains

79.50 Top of spur, 50 ft. above hollow, bears E. and W.

Desc.

79.80 Intersect Salt Lake Base Line 5 lks. East of the Base cor. of Tps.1 N., Rs.9 and 10 W., heretofore described.

Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground, on rock, and surrounded by mound of stone, for closing cor. of Tps.1 S., Rs.9 and 10 W., with brass cap mkd.

T 1 N	
R 10 W	R 9 W
S 36	S 31
C C	
-----	
R 10 W	R 9 W
S 1	S 6
T 1 S	
1912.	

From which

A cedar, 10 ins. dia., bears S.43°E., 79 lks.  
dist..mkd.T 1 S R 9 W S 6 B T.

A cedar, 10 ins. dia., bears S.58°W., 68 lks.  
dist..mkd.T 1 S R 10 W S 1 B T.

Land, mountainous.

Soil, gravelly; 2nd rate. about 12 ins. deep.

Subsoil, gravel and rock.

Timber, cedar.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

79.80 chs.

August 3, 1912.

West bdy.T.1 S., R.10 W.-Continued.

Chains

West bdy.T.1 S., R.10 W.

August 5, 1912: At 7 h 6 m a.m., l.m.t., I set off  $40^{\circ}41'N.$ , on the lat.arc;  $17^{\circ}01'W.$ , on the decl.arc; and determine a meridian with the solar, at the cor.of Tps.1 and 2 S., Rs.10 and 11 W., heretofore described.

Thence I run

North, bet. secs. 31 and 36.

Over gently rolling bench land; through dense undergrowth.

8.00 Wash, 10 lks.wide, 4 ft.deep, in ravine 4 chs.wide, 25 ft.deep. course NW.

16.73 Road, bears NW and SE.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{4}$  sec.cor.. mkd.on brass cap

$\frac{1}{2}$	S 36	S 31 ✓
1912.		

Dig pits,  $18 \times 18 \times 12$  ins.N.and S.of post, 3 ft.dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, W.of cor.

65.00 Wash, 15 lks.wide, 5 ft.deep, in ravine 2 chs.wide, and 30 ft.deep, course NW.

75.90 Road, bears NW and SE.

80.00 Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor.of secs. 25, 30, 31, and 36, with brass cap mkd.

T 1 S	
R 11 W	R 10 W
S 25	S 30
S 36	S 31
1912.	

Dig pits,  $18 \times 18 \times 12$  ins.in each sec.  $5\frac{1}{2}$  ft.dist.; and raise a mound of earth, 4 ft.base, 2 ft.high, W.of cor.

Land, rolling bench.

Soil, clay loam and sand 24 ins.deep. 2nd rate.

No timber.

Undergrowth, shadscales.

Good grass.

Land, covered with dense undergrowth, 80.00 chs.

West bdy.T.1 S., R.10 W.-Continued.

Chains

North bet.secs.25 and 30.

Over gently rolling bench land; through dense undergrowth.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{2}$  sec.cor.with brass cap mkd.

S 25	S 30
------	------

1912.

Dig pits, 18x18x12 ins., N.and S.of post, 3 ft.dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high,W.of cor.

80.00 Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor. off secs.19,24,25, and 30.with brass cap mkd.

T 1 S	
R 11 W	R 10 W
S 24	S 19
S 25	S 30

1912.

Dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$  ft.dist.; and raise a mound of earth, 4 ft base, and 3 ft.high,W.of cor.

Land, rolling bench.

Soil, clay loam and sand 24 ins.deep; 1st rate.

No timber.

Undergrowth, shadscales and grass.

Land covered with dense undergrowth, 80.00 chs.

North,bet.secs.19 and 24.

Over gently rolling bench land; through dense undergrowth.

1.48 Road,bears E.and W.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{2}$  sec.cor..with brass cap mkd.

S 24	S 19
------	------

1912.

Dig pits, 18x18x12 ins., N.and S.of post, 3 ft.dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high,W.of cor.

55.58 Telegraph line,bears N. $61^{\circ}30'W.$ , and S. $61^{\circ}30'W.$

56.55 Western Pacific R.R.track,bears N. $61^{\circ}30'E.$  and S. $61^{\circ}30'W.$

## West bdy.T.1 S., R.10 W.-Continued:

Chains

- 58.26 Telegraph line, bears N.61°30'E., and S.61°30'W.  
 70.40 Road, bears N.65°E. and S.65°W.  
 80.00 Set an iron post, 3 ft. long, 5 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 18, 19, and 24, with brass cap mkd.

T 1 S	
R 11 W	R 10 W
S 13	S 18
S 24	S 19.

1912.

Dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, gently rolling bench.

Soil, clay loam and sand 24 ins. deep; 1st rate.

No timber.

Undergrowth, shadscales.

Good grass for grazing.

Land covered with dense undergrowth, 80.00 chs.

August 5, 1912: At this cor. I set off 16°56' N., on the decl. arc; and at 0 h 6 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40°43' N., which is the proper lat. nearly.

North, bet. secs. 13 and 18.

Over gently rolling bench land; through dense undergrowth.

- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor. with brass cap mkd.

1	
S 13	S 18

1912.

Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 ft. base, 1 $\frac{1}{2}$  ft. high, S. of cor.

71.85 Road, bears NE and SW.

- 80.00 Telephone line from Low to Wendover, bears N.62°53'E. and S.62°53'W.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, mkd. on brass cap

West bdy.T.1 S., R.10 W.-Continued.

Chains

T 1 S	
R 11 W	R 10 W
S 12	S 7
S 13	S 18

1912.

Dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling bench.

Soil, clay and sandy loam; 2 ft. deep. 1st rate.

No timber.

Undergrowth shadscales.

Good grass for grazing.

Land covered with dense undergrowth, 80.00 chs.

North, bet. secs. 7 and 12.

Over rolling bench land; through dense undergrowth.

Asc. gradually.

8.50 Road, bears N. 55° E. and S. 55° W.

33.80 Road, bears N. 70° E. and S. 70° W.

40.00 Set an iron post, 3 ft. long, 1 ins. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

S 12	S 7
1912	

Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

30.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, mkd. on brass cap

T 1 S	
R 11 W	R 10 W
S 1	S 6
S 12	S 7

1912

Dig pits, 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling bench.

Soil, clay loam about 3 ft. deep; 2nd rate.

No timber.

Undergrowth, shadscales.

Good grass.

West bdy.T.1 S., R.10 W.-Continued.

Chains

Land covered with dense undergrowth, 80.00 chs.

North, bet. secs. 1 and 6.

Over rolling bench land; through dense undergrowth.

11.70 Road, bears N.60°E. and S.60°W.

22.50 Wash, 50 lks. wide, 5 ft. deep, course SW..

30.20 Wash, 100 lks. wide, 7 ft. deep, course SW.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

T 1 S 1 | S 6 ✓  
1912.

Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, E. of cor.

79.50 Intersect Salt Lake Base Line, 3.18 chs. West of the Base cor. of Tps. 1 N., Rs. 10 and 11 W., heretofore described.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for closing cor. of Tps. 1 S., Rs. 10 and 11 W., with brass cap mkd.

T 1 N	
R 11 W	R 10 W
S 36	S 31
C C	
R 11 W	R 10 W
S 1	S 6
T 1 S	
1912.	

Dig pits, 30x24x12 ins., crosswise on each line E. and W.

4 ft. and S. of post, 8 ft. dist.; and raise a mound of earth, 5 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.

Land, rolling bench.

Soil, clay and gravelly; 2 ft. deep.

Subsoil, gravel.

No timber.

Undergrowth, shadscales and sage brush.

Good grass for grazing.

August 5, 1912.

*Charles L. Hart.*  
U.S. Transitman.

## Boundaries of T.1 S., R.10 W.-Continued.

Chains

## Boundaries of T.1 S., R.10 W.

Line Designated	Course	Distance chs.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
W.bdy.T.1 S.,R.10 W.	North	479.30	479.30			
E.bdy.T.1 S.,R.10 W.	East	483.25			483.25	
E.bdy.T.1 S.,R.10 W.	South	479.80		479.80		
S.bdy.T.1 S.,R.10 W.	W.L.89°58'W	484.26	.28			484.26
Convergency					.62	
Totals			479.58	479.80	483.85	484.26
Error in lat.					.28	483.85
Error in dep.						.41

## GENERAL DESCRIPTION.

For general description see notes of Sub .T.1 S., R.10 W.

August 5, 1912.

Claude L. Hart  
U. S. Transitman

BOUNDARIES OF T.3 S., R.6 W.

Survey commenced August 21, 1912, and executed with the instrument described in Survey of E. bdy. T.1 S., R.10 W.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At a point near camp, in the NW.cor. of sec. 19, T.3 S., R.6 W., in approximate latitude  $40^{\circ}33'01''$ , longitude  $112^{\circ}34'42''$  W., I set off  $40^{\circ}33'N.$ , on the lat.arc,  $12^{\circ}01'N.$  on the decl.arc, and at 4h.3m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of my station.

At 9h33m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions and mark a point in the line thus determined, on a peg driven in the ground, 5 chs.N. of my station.

August 21, 1912.

August 22: At 7 a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}31'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set Aug. 21, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8h.3m., a.m.; l.m.t., I set off  $40^{\circ}33'N.$  on the lat.arc,  $11^{\circ}48'N.$  on the decl.arc, and mark a point in the meridian, determined with the solar, by a cross on the stone already set, 5 chs.N. of my station: this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m., and a.m., observations, defines positions for meridians, respectively, about  $0'21''$  west and  $0'16''$  east of the meridian established by the Polaris observations; therefore I conclude that the

## BOUNDARIES OF T.3 S., R.6 W.

## CHAINS

The following observations were made to determine if the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h.15m., a.m., is N.17°W., the angle thus determined gives the mag. decl. 17°E.

Having previously retraced the lines between secs. 26-27,

34-35, and 3 and 34, in order to identify the cor. of secs.

3-4-33 and 34, which is limestone, 18x12x8 ins. above

ground, firmly set, and marked with a cross on its upper surface, topography, course and distance, practically

agree with the field notes of the original survey, and identified as the cor. by L.Rathall of Grantsville.

I proceed as follows:

Aug. 22: At 3h.3m., p.m., l.m.t., I set off 40°30'N., on the lat.arc, 11°43'N. on the decl.arc, and determine a meridian at the cor. of secs. 3-4-33 and 34.

Thence I run

West, on a blank line, in order to identify the cor. of secs. 4-5-32 and 33, on the S.bdy. of the Tp.

Bet. secs. 4 and 33

40.10 Fall 61 lks.N. of the  $\frac{1}{4}$  sec.cor., which is a limestone, 10x6x4 ins. above ground, firmly set, properly marked, with traces of pits still visible.

80.06 Fall 124 lks.N. of the cor. of secs. 4-5-32 and 33, which is a lime stone, 12x10x6 ins., marked with a cross and surroundrd by a pile of stone, identified as the true cor. by L.Rathall of Grantsville.

I re-establish this cor. by setting an iron post, 3 ft. long, 3 ins. in diam., 20 ins. in the ground, surrounded by a mound of earth and stone, with brass cap, marked

T 3 S R 6 W

S 32 | S 33

S 5 | S 4

T 4 S R 6 W

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to

## S.BOUNDARY OF T:3 S., R.6 W.

CHAINS

set this cor. over 20 ins. in the ground.

The course of this line is therefore S.89°07'W., and the distance 80.06.

August 22, 1912.

Aug. 23: At 8h.3m., a.m., l.m.t., I set off 40°30'N., on the lat.arc, 11°28'N., on the decl.arc, and determine a meridian with the solar at the cor. of secs. 4-5-32 and 33, heretofore described.

Thence I run

West, bet. secs. 5 and 32, on the S.bdy. of Tp.

Ascend over mountainous land though dense undergrowth.

19.00

Find no trace of post, described by the surveyor general.  
Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked

 $\frac{1}{4} S\ 32$ 

S 5

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Note; On account of natural obstacles it is impossible to set this cor. over 16 ins. in the ground.

52.50

Ridge, bears NE. and SW.

Descend abruptly. Enter scattering timber.

69.20

South Willow Creek, 6 lks. wide, 12 ins. deep, in bottom of canyon, 450 ft. deep, course NE.

69.50

Road, bears NE. and SW., in bottom of canyon.

80.00

Set an iron post, 3 ft. long, 3 ins. in diam., 16 ins. in the ground surrounded by a mound of earth and stone, for the cor. of secs. 5-6-31 and 32, with brass cap, marked

T 3 S R 6 W.

S 31	S 32
S 6	S 5

T 4 S R 6 W.

1912

## S.BOUNDARY OF T.3 S.,R.6 W.

CHAINS

	raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Note; On account of natural obstacles it is impossible to set this cor. over 16 ins. in the ground. Land, mountainous. Soil, clay and loose rock, 3rd rate, 16 ins. deep, Subsoil, loose rock. Timber, cedar. Undergrowth, sage brush and grass. Mountainous land on 80.00 chs. Aug. 23; At this cor. I set off 11°24'N. on the decl. arc, and at 0h.3m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 40°30'N.
28.80	West, bet. secs. 6 and 31. Ascend over mountainous land, through scattering timber and dense undergrowth.
40.00	Road, Grantsville to 3rd Term Mine, on top of ridge, bears NE. and SW. Descend. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4} S 31$ <u>S 6 1912</u>
52.80	raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Head of hollow, 100 ft. deep, course NE. i.e. down hollow.
55.80	Ascend. to ridge, through timber and dense undergrowth. Road, Grantsville to 3rd Term Mine, bears NW. and SE.
57.00	Same road, bears NE. and SW.
65.00	Ridge, bears NE. and SW.
78.76	Descend. Set an iron post, 3 ft. long, 3 ins. in diam., 16 ins. in the

S.BOUNDARY OF T.3 S.,R.6 W.

MAILY'S

ground, surrounded by a mound of earth and stone, for the cor.of Tps.3 and 4 S.,Rs.6 and 7.W.,with brass cap,marked

T 3 S

R 7 W R 6 W

S 36 | S 31

S 1 | S 6

R 7 W R 6 W

T 4 S

1912

raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high,S.of cor.

Note;On account of natural obstacles it is impossible to set this cor.over 16 ins.in the ground.

Land,mountainous.

Soil,clay and loose rock,16 to 24 ins.deep,3rd rate.

Subsoil,loose rock.

Timber,cedar.

Undergrowth,mahogany sage brush and grass.

Mountainous land on 78.76 chs.

August 23,1912.

---

W.BOUNDARY OF T.3 S.,R.6 W.

August 24: At 8h.2m.,a.m.,l.m.t.,I set off  $40^{\circ}30'N.$ ,on the lat.arc, $11^{\circ}07'N.$ ,on the decl.arc, and determine a meridian with the solar at the cor.of Tps.3 and 4 S.,Rs. 6 and 7 W.

Thence I run

North,betsecs.31 and 36.

Ascend over mountainous land; through scattering timber and dense undergrowth.

5.10

Ridge,bears NW.and SE.

Descend abruptly.

26.70

Hollow,525 ft.deep,course NE.

Black Bunch Spring bears E.,1 ch.dist.

## W.BOUNDARY OF T.3 S., R.6 W.

## CHAINS

	Ascend.
32.00	Spur.projects E.
	Descend.
34.00	Hollow, 150 ft. deep, course SE.
	Ascend.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, surrounded by a mound of earth and stone, for the $\frac{1}{4}$ sec.cor., with brass cap, marked ✓
	$\frac{1}{4}$ S 36   S 31 1912
	from which
	A cedar, 6 ins. diam., bears N. $27^{\circ}15'W.$ , 96 lks.dist., marked $\frac{1}{4}$ S 36 BT.
	A cedar, 8 ins. diam., bears N. $85^{\circ}15'E.$ , 85 lks.dist., marked $\frac{1}{4}$ S 31 BT.
	Note; On account of natural obstacles it is impossible to set this cor. over 20 ins. in the ground.
42.00	Spur.projects E.
	Descend. abruptly.
51.00	Hollow, 250 ft. deep, course SE.
	Ascend. abruptly.
68.10	Ridge, bears NW. and SE.
	Descend.
72.00	Head of hollow, 75 ft. deep, course NE.
	Ascend.
80.00	Set an iron post, 3 ft. long, 3 ins. diam., 18 ins. in the ground, surrounded by a mound of earth and stone, for the cor.of secs. 25-30-31 and 36, with brass cap, marked ✓

T 3 S .on has in spec. sec. dir. of

direction of R 7 W., R 6 W. and is about two hours

S 25 | S 30

S 36 | S 31

1912

from which

A cedar, 8 ins. diam., bears N.  $80^{\circ}30'E.$ , 192 lks.dist..

MAIN

marked T 3 S R 6 W S 30 BT.

No other trees available, raise mound of stone, 2 ft. base,  $\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to set this cor. over 18 ins. in the ground.

From this cor. Coal Pit Spring, bears N. $36^{\circ}15' E.$ , 35 chs. dist.

Land, mountainous.

Soil, clay and loose rock, 18 to 20 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush, willows and grass.

Dense undergrowth and mountainous land on .80.00 chs.

Aug. 24: At this cor. I set off  $11^{\circ}03' N.$ , on the decl. arc, and at Oh. 2m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $40^{\circ}31' N.$

---

North, bet. secs. 25 and 30.

Ascend over mountainous land, through scattering timber and dense undergrowth.

16.00 Ridge, bears NE. and SW.

Descend.

27.00 Head of hollow, 50 ft. deep, course E.

Ascend.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4} S 25 | S 30$

1912

from which

A cedar, 10 ins. diam., bears S. $89^{\circ}30' E.$ , 81 lks. dist., marked  $\frac{1}{4} S 30$  BT.

A cedar, 6 ins. diam., bears N. $61^{\circ}30' W.$ , 81 lks. dist.,

CHAINS

marked  $\frac{1}{4}$  S 25 BT.

Note; On account of natural obstacles it is impossible to set this cor. over 18 ins. in the ground.

- 41.50 Ridge, bears NE. and SW.  
Descend abruptly.
- 68.10 North Willow Creek, 10 lks. wide, 12 ins. deep, in bottom of canyon, 700 ft. deep, course NE.  
Ascend.
- 70.45 Road, in canyon, bears NE. and SW.
- 75.00 Enter heavy timber, bears NE. and SW.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for the cor. of secs. 19-24-25 and 30, with brass cap, marked

T 3 S

R 7 W R 6 W

S 24	S 19
<hr/>	
S 25	S 30

1912

from which

A cedar, 6 ins. diam., bears N.  $74^{\circ}E.$ , 65 lks. dist., marked T 3 S R 6 W S 19 BT.

A cedar, 6 ins. diam., bears S.  $40^{\circ}30'E.$ , 68 lks. dist., marked T 3 S R 6 W S 30 BT.

A cedar, 4 ins. diam., bears S.  $28^{\circ}W.$ , 65 lks. dist., marked T 3 S R 7 W S 25 BT.

A cedar, 8 ins. diam., bears N.  $59^{\circ}W.$ , 77 lks. dist., marked T 3 S R 7 W S 24 BT.

Land, mountainous.

Soil, clay and loose rock, 18 to 24 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Heavily timbered land on 5.00 chs.

## W.BOUNDARY OF T.3 S.,R.6 W.

CHAINS

August 26: At 8h.2m.,a.m.,l.m.t.,I set off  $40^{\circ}32'N.$ ,  
on the lat.arc, $10^{\circ}26'N.$ ,on the decl.arc, and determine  
a meridian with the solar at the cor.of secs.19-24-25  
and 30.

Thence I run .

North,betsecs.19 and 24.

Ascend over mountainous land,through heavy timber.

22.80 Spur,projects E.

Descend:

23.00 Leave heavy timber,bears NW.and SE.Enter scattering  
timber and dense undergrowth.

40.00 Set an iron post,3 ft.long,1 in.in diam.,18 ins.in the  
ground,surrounded by a mound of earth and stone,for the  
 $\frac{1}{4}$  sec.cor.,with brass cap,marked

$\frac{1}{4}$  S 24 | S 19

1912 ↑

raise a mound of stone,2 ft.base, $1\frac{1}{2}$  ft.high,W.of cor.

Note; On account of natural obstacles it is impossible  
to set this cor.over 18 ins.in the ground.

61.60 Stream of fresh water,3 lks.wide,6 ins.deep,in bottom  
of Davenport Canyon,400 ft.deep,course E.

63.00 Road,bears E.and W.

66.40 Junction of hollow,75 ft.deep,with Davenport canyon.

Ascend along W.slope of spur.

70.00 Enter heavy timber,bears NW.and SE.

80.00 Set an iron post,3 ft.long,3 ins.in diam.,24 ins.in the  
ground,for the cor.of secs.13-18-19 and 24,with brass  
cap,marked

T 3 S

R 7 W R 6 W

S 13 | S 18

S 24 | S 19

1912

from which

A cedar,6 ins,diam.,bears N. $55^{\circ}E.$ ,49 lks.dist.,

## W.BOUNDARY OF T.3 S., R.6 W.

CHAINS

	MARKED T 3 S R 6 W S 18 BT. A cedar, 6 ins. diam., bears S. $31^{\circ}$ E., 13 lks. dist., marked T 3 S R 6 W S 19 BT. A cedar, 8 ins. diam., bears S. $60^{\circ}$ W., 85 lks. dist., marked T 3 S R 7 W S 24 BT. A cedar, 8 ins. diam., bears N. $14^{\circ}$ W., 86 lks. dist., marked T 3 S R 7 W S 13 BT. Land, mountainous. Soil, clay and loose rock, 18 to 24 ins. deep, 3rd rate. Subsoil, loose rock. Timber, cedar. Undergrowth, sage brush and grass. Mountainous land on 80.00 chs. Heavily timbered land on 33.00 chs. August 26: At this cor. I set off $10^{\circ}22'N.$ , on the decl. arc, and at 0h.2m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ}33'N.$ North, bet. secs. 13 and 18. Ascend over rough mountainous land, over broken conglomerate ledges and boulders; through scattering timber, and dense undergrowth. Ridge, bears NE. and SW, Leave ledges and boulders. Descend. Set an iron post, 3' ft. long, 1' in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec.cor., with brass cap, marked  $\frac{1}{4}$ S 13   S 18 1912 dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Head of hollow, 75 ft. deep, course NE. Ascend. Spur, projects NE. Descend.
38.00	
40.00	
42.50	
46.00	

## W. BOUNDARY OF T. 3 S., R. 6 W.

## CHAINS

65.00 Baker Canyon, 400 ft. deep, course SE.  
Ascend abruptly.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 18 ins. in the ground, surrounded by a mound of earth and stone, for the cor. of secs. 7-12-13 and 18, with brass cap, marked

T 3 S

R. 7 W. R. 6 W.

S 12	S 7
S 13	S 18

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high; W. of cor.

Note: On account of natural obstacles it is impossible to set this post over 18 ins. in the ground.

Land, mountainous.

Soil, clay and loose rock, 18 to 24 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Rough mountainous land on 80.00 chs.

August 26, 1912.

August 27: At 8h. 1m., a.m., l.m.t., I set off  $40^{\circ}34'N.$ , on the lat. arc,  $10^{\circ}05'N.$  on the decl. arc, and determine a meridian with the solar at the cor. of secs. 7-12-13 and 18.

Thence I run

North, bet. secs. 7 and 12.

Ascend over mountainous land, through scattering timber and dense undergrowth.

12.00 Ridge, bears NW. and SE.

33.00 Descend abruptly.

33.00 Hollow, 550 ft. deep, course SE.

Ascend.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the

CHAINS

ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked

$\frac{1}{4}$ S 12	S 7
--------------------	-----

1912

from which

A cedar, 8 ins. diam., bears N. $37^{\circ}E.$ , 64 lks. dist.,

marked  $\frac{1}{4}$  S 7 BT.

A cedar, 8 ins. diam., bears N. $43^{\circ}45'W.$ , 94 lks. dist.,

marked  $\frac{1}{4}$  S 12 BT.

47.60 Ridge, bears NW. and SE.

Descend abruptly.

71.50 Hollow, 575 ft. deep, course SE.

Ascend abruptly.

80.00 Set an iron post, 3 ft. long, 3 ins. in diam., 16 ins. in the ground, surrounded by a mound of earth and stone, for the cor. of secs. 1-6-7 and 12, with brass cap, marked

T 3 S

R 7 W R 6 W

S 1	S 6
S 12	S 7

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to set this cor. over 16 ins. in the ground.

Land, mountainous. Wind, strong. Wind, strong and

Soil, clay and loose rock, 16 to 24 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage, brush and grass.

Mountainous land on 80.00' chs. above brush bar.

August 27: At this cor. I set off  $10^{\circ}01'N.$  on the decl. arc, and at Oh. 1m., p.m., 1.m.t.; observe the sun on the meridian, the resulting lat is  $40^{\circ}35'N.$

## W.BOUNDARY OF T.3 S.,R.6 W.

CHAINS

North.betsecs.1 and 6.  
Ascend over mountainous land, through scattering timber and dense undergrowth.

4.00 Ridge,bears NW.and SE.

Descend.

5.00 Leave scattering timber,bears NW.and SE.

29.00 Hollow,300 ft.deep,course SE.

Ascend.

40.00 Ridge,bears NW.and SE.

Set an iron post,3 ft.long,1 in.in diam.,16 ins.in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec.cor.,with brass cap,marked

$\frac{1}{4}$  S 1 | S 6

1912

raise a mound of stone,2 ft.base,1 $\frac{1}{2}$  ft.high,W.of cor.

Note: On account of natural obstacles it is impossible to set this cor.over 16 ins.in the ground.

Descend.

49.00 Hollow,200 ft.deep,course SE.

Ascend.

65.80 Ridge,bears E.and W.

Descend.

74.50 Hollow,175 ft.deep,course NE.

Ascend.

75.80 Old road,bears E.and W.

80.00 Set a temp.cor.of Tps.2 and 3 S.,Rs.6 and 7 W.

Land,mountainous.

Soil,clay and loose rock,16 to 24 ins.deep,3rd rate.

Subsoil,loose rock.

Timber,Cedar.

Undergrowth,sage brush and grass,

Mountainous land on 80 .00 chs.

This cor.afterward made permanent at 81.32 chs.

August 27,1912.

## N.BOUNDARY OF T.3 S.,R.6 W.

CHAINS

August 28: At 8H.1m., a.m., l.m.t., I set off  $40^{\circ}36'N.$ , on the lat.arc,  $90^{\circ}44'N.$ , on the decl.arc, and determine a meridian, with the solar at the re-established cor. of secs. 4-5-32 and 33, heretofore described on the N. Bdy. of the Tp.

Thence I run

West, on a random line, along the N.bdy.of the Tp.3 S., R.6 W., setting temp. $\frac{1}{4}$  sec., and sec.cors. at intervals of 40.00 chs., and at 150.50 chs., fall 132 lks.N. of the temp.cor. of Tps.2 and 3 S., Rs.6 and 7 W.

This falling being out of the prescribed limits for course, therefore I establish the random as a true line and at my point of intersection with the W.bdy.of the Tp. I establish the cor.of Tps.2 and 3 S., Rs.6 and 7 W. as follows:

Set an iron post, 3 ft.long, 3 ins.in diam., 14 ins.in the ground, surrounded by a mound of earth and stone, for the cor.of Tps.2 and 3 S., Rs.6 and 7 W., with brass cap, marked

T 2 S

R 7 W R 6 W

S 36 | S 31

S 1 | S 6

R 7 W R 6 W

T 3 S

1912

raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high, S.of cor. Note: On account of natural obstacles it is impossible

to set this cor. over 14 ins. in the ground. I destroy the temp.cor. of Tps.2 and 3 S., Rs.6 and 7 W. August 28: At this cor. I set off  $90^{\circ}40'N.$ , on the lat.

arc, and at 0H.1m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $40^{\circ}36'N.$

Thence I run

East, on a true line

Betsecs. 6 and 31.

N.BOUNDARY OF T.3 S.,R.6 W.

CHAINS

Descend over rolling land, through dense undergrowth.

12.35 Hollow, 50 ft. deep, course NE.

Ascend.

20.60 Old road, bears NE. and SW.

30.50 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 31

S 6

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

70.50 Set an iron post, 3 ft. long, 3 ins. in diam., 14 ins. in the ground, surrounded by a mound of earth and stone, for the cor. of secs. 5-6-31 and 32, with brass cap, marked

T 2 S R 6 W

S 31	S 32
S 6	S 5

T 3 S R 6 W

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to set this cor. over 14 ins. in the ground.

Land, rolling and mountainous.

Soil, black sandy loam and gravel, 14 to 24 ins. deep,  
2nd rate.

Subsoil, gravel and loose rock.

No timber.

Undergrowth, sage brush and grass.

Dense undergrowth on 70.50 chd.

## N.BOUNDARY OF T.3 S., R.6 W.

~~REMARKS~~

East, bet. secs. 5 and 32.

Ascend over rolling mountainous land, through dense undergrowth.

- 46.00 Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

 $\frac{1}{4}$  S 32

S 5

1912

raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high. N. of cor.

Note; On account of natural obstacles it is impossible to set this cor. over 16 ins. in the ground.

- 44.42 Wire fence, bears N. 20° E., and S. 20° W., enclosing a tract containing about 40 acres of pasture land.

- 64.70 Wire fence, bears N. and S., leave pasture land.

- 65.00 Low Ridge, bears N. and S.

Descend.

- 70.40 Head of hollow, 30 ft. deep, course N.

Ascend.

- 73.50 Low spur, projects SW.

Descend.

- 75.50 Foot of descent, leave rolling, mountainous land bears NE. and SW., enter gently rolling bench land.

- 78.70 Old road, bears N. and S.

- 80.00 The re-established cor. of secs. 4-5-32 and 33.

Land, rolling and mountainous.

Soil, clay and black sandy loam, 16 to 24 ins. deep, 2nd rate.

Subsoil, gravel and loose rock.

No timber.

Undergrowth, sage brush and grass.

Dense undergrowth on 80.00 chs.

August 28, 1912


  
U.S. Surveyor

## BOUNDARIES OF T.3 S., R.6 W.

## BOUNDARIES OF T.3 S., R.6 W.

## LATITUDES, DEPARTURES AND CLOSING ERRORS.

Line Designated	True Bearing	Distance	Latitudes N. Chs.	Departures E. Chs.	Departures W. Chs.
			N. Chs.	S. Chs.	
S.Bdy.	West	158.76			
W.Bdy.	North	481.32	481.32		158.76
N.Bdy.	East	150.50		150.50	
E." Sec.5	S.0°56'E.	80.26	80.25	1.31	
E." Sec.8	S.0°56'E..	80.18	80.17	1.31	
E." Sec.17	S.1°0'E.	80.24	80.23	1.40	
E." Sec.20	S.1°01'E.	80.26	80.25	1.42	
E." Sec.29	S.1°01'E.	80.26	80.25	1.42	
E." Sec.32	S.1°01'E.	80.26	80.25	1.42	
Convergency		0.21		0.21	
Totals		481.32	481.40	158.99	158.76
			481.32	158.76	
Error in lat. and dep. 0.08					0.23

For general description of Tp. see Subdivisions of T.3 S.  
R.6 W.

Claude L. West.

U.S. Transitman.

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**Page**

BOOK A-400

## CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,  
....., U. S. Surveyor, during the periods and in the capacities  
stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book "L" T.2 S., R.6 W

of the Meridian, in the State of

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, ..... U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for ..... bearing date of the ..... day of ..... , 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of .....

For final oaths of U.S. Surveyor and Transitman see book "K" T. 2 S.  
R. 6 W.

of the .....

Meridian, in the State of ..... which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for ..... and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said ..... , and sworn to before me }  
this ..... day of ..... , 191 }

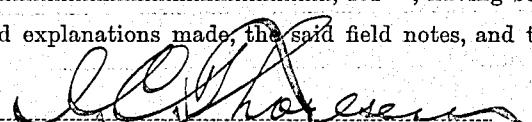


APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, December 5, 1914.

The foregoing field notes of the survey of the east and north boundaries of Townships 1 and 2 North, Range 8 West; west and north and retracement of south boundaries of Township 3 North, Range 9 West; west and north and retracement of east and south boundaries of Township 2 South, Range 10 West; east and west boundaries of Township 1 South, Range 10 West; and the south, west and north boundaries of Township 3 South, Range 6 West of the Salt Lake Base and Meridian, Utah, executed by ..... John R. Stewart and Claude L. Heist their under his special instructions dated May 28, 1912, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and surveys they describe, are hereby approved.



A handwritten signature in black ink, appearing to read "John R. Stewart".

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

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**Page**

Feb. 10, 1913.

K.F.B.

20

4-679

## BOOK A-400

C.

E.R.

## FIELD NOTES

OF THE SURVEY OF THE

GUIDE MERIDIAN

THROUGH

TOWNSHIPS 1 AND 3 NORTH

BETWEEN

RANGES 8 AND 9 WEST

Of the SALT LAKE BASE AND Meridian,

In the State of UTAH.

EXECUTED BY

JOHN R. STEWART AND CLAUDE L. HEIST

and Transitman  
In the capacity of U.S. Surveyor, under instructions dated May 28, 1912,  
issued by the United States Surveyor General to govern surveys included in  
Group No. 17, which were approved by the Commissioner of the General Land  
Office, June 7, 1912, pursuant to authority contained in the Act of  
Congress dated ..., 1911.

Survey commenced June 13, 1912,

Survey completed June 28, 1912.

For just a moment my PM-210-6-C5-10  
class, 100-04-54

" " " 321ft 749m - 2-00-50

BOOK NO. 400

## INDEX DIAGRAM.

Township ..... Range .....

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

## GUIDE MERIDIAN

OR

W. BDY. T. 1 N., R. 8 W.-Continued.

## CHAINS

Survey commenced June 13, 1912, and executed with a W. and L.E. Gurley solar compass No. 101111. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc. which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the meridian at Salt Lake City, and was approved by the surveyor general for Utah May 5, 1912.

NOTE: For complete test of instrument see notes of Retracement of Salt Lake Base Line, through Range 8 W. June 13, 1912: At the Base cor. of Tps. 1 N., Rs. 8 and 9 W., heretofore described, latitude  $40^{\circ}46'04''$ N., longitude  $112^{\circ}48'20''$ west. At 2h 07m a.m., l.m.t., I observe Polaris at eastern elongation in accordance with the Manual and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground 5.00 chs. N. of the cor.

At 6h 30m a.m., l.m.t., I lay off the azimuth of Polaris  $1^{\circ}31'$  to the west and mark a point in the line thus determined by cutting a small groove in a stone firmly set in the ground 5.00 chs. N. of the cor.

At 7h 0m a.m., l.m.t., I set off  $40^{\circ}46'N.$  on the lat. arc.  $23^{\circ}15'N.$  on the decl. arc. and determine a meridian with the solar and mark a point thereof by a cross on the stone already set 5.00 chs. N. of the cor., this mark falls 0.31 ins. east of the mark determined by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7h 30m a.m., is N.  $16^{\circ}46'W.$ , the angle thus determined gives the mag. decl.  $16^{\circ}46'E.$

From the Base cor. of Tps. 1 N., Rs. 8 and 9 W., I run North on random line along W. bdy. of Tp. or Guide Mer-

GUIDE MERIDIAN  
or

W.BDY. T. 1 N., R. 8 W.-Continued.

CHAINS

idian, setting temp.  $\frac{1}{4}$  sec. and sec. cor.s at intervals of 40.00 chs.

Difference between measurements of 485.10 chs. is 20 lks. position of middle point,

By 1st set 485.00 chs.

By 2nd set 485.20 chs., the mean of which is

485.10

Intersect N. bdy. of Tps. 4.54 chs. West of the cor. of Tps.

1 and 2 N., Rs.8 and 9 W. heretofore described. The fall-  
ing exceeds the limit, therefore at intersection

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the  
ground, for closing cor. of Tps. 1 N., Rs.8 and 9 W. with  
brass cap marked

T 2 N	
R 9 W	R 8 W
S 36	S 31
CC	
S 1	S 6
R 9 W	R 8 W
T 1 N	
1912	

and raise a mound of stone, 2 ft. base, 2ft. high S. of  
cor. I found no trace of old corners. June 13, 1912.

June 14, 1912: At 7h 0m a.m., l.m.t., I set off  $40^{\circ}51'N.$   
on the lat.arc. $23^{\circ}18'N.$  on the decl. arc. and determine  
a meridian with the solar, at the closing cor. of Tps. 1  
N., Rs. 8 and 9 W. I destroy marks on cor. of Tps. 1 and  
2 N. Rs. 8 and 9 W., which pertain to Tps. 1 N.R. 8 and 9 W.  
Thence I run South on true line bet. secs. 1 and 6.

Over mountainous land, through scattering timber and dense  
undergrowth. Asc.

21.00 Ridge, 300 ft. above cor., bears N. $30^{\circ}E.$  and S. $30^{\circ}W.$  Desc.

30.00 Bottom of hollow, 50 ft. below ridge, course NE. Asc.

38.90 Foot of limestone ledge, 50 ft. high, bears E. and W.

40.10 Top of ridge, 300 ft. above hollow, bears E. and W. Desc.

Difference between measurements of 45.10 chs. by two sets  
of chainmen is 4 lks., position of middle point

By 1st set 45.08 chs.

By 2nd set 45.12 chs. the mean of which is

45.10 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the  
ground, for  $\frac{1}{4}$  sec. cor., with brass cap marked

S 1	S 6
-----	-----

1912

13.  
GUIDE MEFIDIAN  
or  
West bdy.T.1 N., R.8 W.-Continued.

- Chains and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 57.60 Top of perpendicular limestone ledge, 200 ft. high, bears NW and SE.  
 Difference between measurements of 85.10 chs. by two sets of chainmen, is 10 lks.; position of middle point,  
     . By 1st set 85.05 chs.;  
     . By 2nd set, 85.15 chs.; the mean of which is
- 85.10 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, mkd. on brass cap.
- |                |  |
|----------------|--|
| T 1 N          |  |
| R 9 W    R 8 W |  |
| S 1      S 6   |  |
| <hr/>          |  |
| S 12      S 7  |  |
1912.  
 and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 Land, mountainous very rough and steep.  
 Soil, clay mixed with rock.  
 Timber, cedar and pinon pine.  
 Undergrowth, mahogany.  
 Good grass.  
 Mountainous land, or land covered with dense undergrowth,  
 85.10 chs.
- June 14, 1912: At this cor. I set off 23°17'N., on the decl. arc; and at 11 h 59.9 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40°50'N., which is the proper lat. nearly.
- South, on a true line bet. secs. 7 and 12.  
 Over mountainous land; through scattering timber and dense undergrowth.  
 Asc.  
 2.00 Old shaft 15 ft. deep bears East 100 lks. dist.  
 18.00 Leave timber, bears E. and W.  
 Bottom of hollow, 250 ft. below cor., course S. 30°W. Asc.  
 Difference between measurements of 40.00 chs. by two sets of chainmen, is 2 lks.; position of middle point,  
     . By 1st set 39.99 chs.  
     . By 2nd set 40.01 chs.; the mean of which is

4  
GUIDE MERIDIAN  
or  
W.bdy.T.1 N.,R.8 W.-Continued.

Chains

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of stone, for  $\frac{1}{2}$  sec.cor.. mkd.on brass cap

$\frac{1}{2}$   
S 12 | S 7  
1912

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.

41.00 Top of ridge, 250 ft. above hollow, bears E.and W.

Desc.

72.70 Begin more gradual descent, bears E.and W..

72.80 Road, bears E.and W..

Difference between measurements of 80.00 chs, by two sets of chainmen is 4 lks.; position of middle point,

. By 1st set 39.98 chs.

By 2nd set, 40.02 chs.; the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor.of secs.7,12,13, and 18, with brass cap mkd.

T 1 N  
R 9<sup>W</sup> | R 8<sup>W</sup>  
S 12 | S 7  
S 13 | S 18  
1912.

Dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$  ft. dist.; and raise mound of earth, 4 ft. base, 2 ft. high, W.of cor.

Land mountainous .

Soil, clay loam mixed with gravel and rock. Subsoil rocky.

Timber, cedar and pinon pine.

Undergrowth, sage brush, shadscales, and greasewood.

Good grass for grazing.

June 14, 1912.

June 15, 1912: At 7 h 0 m a.m., l.m.t., I set off  $40^{\circ}50'N.$ , on the lat.arc;  $23^{\circ}21'W.$ , on the decl.arc; and determine a meridian with the solar, at the cor.of secs.7,12,13, and 18,

Thence I run .

South on a true line betsecs.13 and 18.

Over mountainous land; through dense undergrowth.

Desc.

5.50 Wash, 100 lks.wide, 30 ft.deep, in bottom of broad hollow,

75  
GUIDE VERIDIAN

or

West Edy.T.1 N., R.8 W.-Continued.

Chains 40 ft. below cor., course S.70°W. about 3.00 chs. thence S.50°W.  
Asc. gradually.

Difference between measurements of 40.00 chs. by two sets of  
chainmen is 2 lks.; position of middle point,

By 1st set 39.99 chs.

By 2nd set, 40.01 chs.; the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the  
ground, for 1 sec. cor. with brass cap mkd.

S 13	S 18
1912.	

Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.; and raise  
a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

71.50 Top of ridge, 200 ft. above hollow, bears NE and SW.  
Desc. gradually.

Difference between measurements of 80.00 chs. by two sets  
of chainmen is 6 lks.; position of middle point,

By 1st set 79.97 chs.

By 2nd set, 40.03 chs.; the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 14 ins. in the  
ground, on hard gravel and surrounded by mound of stone,  
for cor. of secs. 13, 18, 19, and 24, with brass cap mkd.

T 1 N	
R 9 W	R 8 W
S 13	S 18
S 24	S 19
1912.	

And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Land, mountainous.

Soil, clay and rocky about 2 ft. deep, subsoil clay and rock.  
No timber.

Undergrowth, sage, shadscales, and greasewood.

Good grass.

Mountainous land, or land covered with dense undergrowth,  
80.00 chs.

---

South, on a true line bet. secs. 19 and 24.

Over mountainous land; through dense undergrowth.

Desc.

GUIDE MERIDIAN  
or  
West bdy.T.1 N.,R.8 W.-Continued.

Chains	
22.25	Bottom of broad swale, 150 ft. below cor., course SW. Asc. Difference between measurements of 40.00 chs. by two sets of chainmen, is 2 lks.; position of middle point, By 1st set, 39.99 chs. By 2nd set 40.01 chs. ; the mean of which is
40.00	Set an iron post, 3 ft. long, 1 ins. in dia., 12 ins. in the ground, on hard gravel and surrounded by mound of stone, for 1 sec.cor.with brass cap mkd.  $\begin{array}{c c} \frac{1}{4} & \\ S 24 &   S 19 \\ \hline & 1912. \end{array}$ And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
59.00	Top of ridge, 75 ft. above hollow, bears E. and W. Desc.
76.00	Foot of descent, 100 ft. below ridge, bears N.80°E. and S.80°W. Enter valley. Difference between measurements of 80.00 chs. by two sets of chainsmen is 2 lks.; position of middle point, By 1st set, 79.99 chs. By 2nd set 80.01 chs.; the mean of which is
80.00	Set an iron ppst, 3 ft. long, 3 ins. in dia., 24 in .in the ground, for cor.of secs.19,24,25, and 30,mkd.on brass cap  $\begin{array}{c c} T 1 N & \\ R 9 W &   R 8 W \\ S 24 &   S 19 \\ \hline & \\ S 25 &   S 30 \\ \hline & 1912. \end{array}$ Dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft.dist.; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. N.76.00 chs.rolling mountainous,soil,clayloam mixed with gravel and rock.S.4.00 chs.level land with clay loam about 3 ft.deep. No timber. Undergrowth,sage brush shadscales and greasewood. A very little grass. Mountainous land, or land covered with dense undergrowth, 80.00 chs.

17

## GUIDE MERIDIAN

or

West bdy.T.1 N.R.8 W.-Continued..

Chains

June 15, 1912: At this cor. I set off  $23^{\circ}20'N.$ , on the decl. arc; and at 0 h 0.2 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}48'N.$ , which is the proper lat. nearly.

South, on a true line bet. secs. 25 and 30.

Over level valley.; through dense undergrowth.

Desc. gradually.

5.00 Read, bears NW and SE.

Difference between measurements of 40.00 chs. by two sets of chainmen, is 2 lks.; position of middle point,

By 1st set 39.99 chs.;

By 2nd set 40.01 chs.; the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for 1/2 sec.cor.. with brass cap mkd.

S 25		S 30
1912.		

Dig pits,  $18 \times 18 \times 12$  ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Difference between measurements of 30.00 chs.; by two sets of chainmen, is 4 lks.; position of middle point,

By 1st set 29.98 chs.;

By 2nd set 30.02 chs.; the mean of which is

30.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, mkd. on brass cap

T 1 N		
R 9 W		R 8 W
<u>S 25</u>		<u>S 30</u>
S 36		S 31
1912.		

Dig pits,  $18 \times 18 \times 12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay 2nd rate.

No timber.

GUIDE MAPIDIAN  
or

West Bay S.1 N., R.8 W.-Continued.

Chains

Undergrowth, greasewood and sage brush.

No grass.

Land covered with dense undergrowth, 80.00 chs.

South, on true line bet. secs. 31 and 36.

Over level land; through dense undergrowth.

Desc. gradually.

14.45 Road, bears N. 70°W. and S. 70°E.

23.90 Telegraph line, bears N. 50°W. and S. 50°E.

25.00 Western Pacific R.R. Track, bears N. 50°W. and S. 50°E.

25.90 Telegraph line bears N. 50°W. and S. 50°E.

29.30 Telephone line, bears N. 50°W. and S. 50°E.

Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle point,

By 1st set 39.98 chs.

By 2nd set 40.02 chs.; the mean of which is  
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the  
ground, for 1 sec. cor. mkd. on brass cap

S 36 | S 31  
1912.

Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.; and raise  
a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

43.80 Road, bears N. 75°W. and S. 75°E.

51.90 Road, bears N. 60°W. and S. 60°E.

Difference between measurements of 80.00 chs. by two sets of chainmen, is 6 lks.; position of middle point,

By 1st set 79.97 chs.

By 2nd set 80.03 chs.; the mean of which is  
80.00 The Base Line cor. of Tps. 1 N., Rs. 8 and 9 W., heretofore de-  
scribed.

Land, level.

Soil, clay loam; 3rd rate about 3 ft. deep.

No timber.

GUIDE MERIDIAN  
or  
W.bdy.T.1 N.R.8 W.-Continued.

Chains

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense under growth, 80.00 chs.

June 15, 1912.

*John R Stewart*  
U.S. Surveyor.

General Description.

For general description see notes of Subdivision of  
T.1 N., R.8 W.

*John R Stewart*  
U.S. Surveyor.

Volume

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Page

Survey commenced June 27, 1912 and executed with the transit described in survey of E.bdy.T.2 N.R.8.W.  
I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor.of Tps.2 and 3 N.,Rs.8 and 9 W., previously described, in approximate latitude  $40^{\circ}56'30''$ N., longitude  $112^{\circ}48'20''$ W.; I set off  $40^{\circ}56'30''$ N.on the lat.arc;  $23^{\circ}20'$ N.on decl.arc, and at 4h.3m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground 5 chs.N.of the cor.

June 27, 1912.

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June 28: At 1h.8m. a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of instructions, and mark a point in the line thus determined, on a peg driven in the ground 5 chs.N.of my station.

At 7 a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}31'$  to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening, on which the meridian falls 0.4 ins.east of the mark determined by the solar.

At 8h.3m.a.m.,l.m.t., I set off  $40^{\circ}56'30''$ N.on the lat.arc,  $23^{\circ}18'$ N.on the decl.arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N.of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'21''$ west and  $0'16''$  east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h.30m., a.m., is  $N.17^{\circ}30'W.$ ; the angle thus determined gives the mag.

CHAINS  
decl.  $17^{\circ}30'E.$   
from the Tp.cor.1 run  
North, bet.secs., 31 and 36.  
Over gently rolling plowed ground between the claims of  
H.A.Schryver on W., and E.B.Waddell on E.  
13.14 Road, bears E.and W.  
13.57 Road, bears NW.and SE.  
20.00 Leave E.B.Waddell's claim on the E., contains about 40 acres  
of cultivated land.  
20.60 Enter dense undergrowth, bears E.and W.  
27.85 Leave H.A.Schryver's claim on W., contains about 60 acres of  
cultivated land.  
Difference bet.measurements of 40.00 chs., by two sets of  
chainmen, is 2 lks.; position of middle point  
By 1st set, 40.01 chs.  
By 2nd set, 39.99 chs., the mean of which is  
40.00 Set an iron post, 36 ins.long, 1 in diam., 26 ins in the  
ground for the  $\frac{1}{4}$  sec.cor., marked on brass cap  
$$\begin{array}{|c|c|} \hline R 9 W & R 8 W \\ \hline S 25 & S 30 \\ \hline \end{array}$$
 1912 dig pits 18 x 18' x 12 ins.  
N.and S.of post 3 ft.dist.; and raise a mound of earth  
 $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high W.of cor'.  
71.25 Road bears N. $3^{\circ}E.$  and S. $3^{\circ}W.$   
79.83 Road bears W.and S. $10^{\circ}E.$   
Difference between measurements of 80.00 chs. by two sets  
of chainmen is 4 lks.; position of middle point  
By 1st set 80.02 chs.  
By 2d set 79.98 chs.; the mean of which  
80.00 Set an iron post, 36 ins.long, 3 ins.diam., 24 ins.in the  
ground for the cor.of secs. 25, 30, 31 and 36, with brass  
cap, marked  
$$\begin{array}{|c|c|} \hline T 3 N. & R 8 W \\ \hline R 9 W & S 30 \\ \hline S 25 & S 36 \\ \hline \end{array}$$
 1912  
$$\begin{array}{|c|c|} \hline R 9 W & R 8 W \\ \hline S 25 & S 30 \\ \hline \end{array}$$
 1912  
and dig pits 18 x 18 x 12 ins.in each sec., and raise a mound  
of earth, 4 ft.base, 2 ft.high, W.of cor.  
Land, gently rolling.

2nd Guide Meridian W. through Tp. 3 N., Between Rs. 8 and 9 W.

Chains

Soil, light sandy loam, 1st rate, 24 ins. deep.

Subsoil, clay loam.

No timber.

Undergrowth, greasewood, shadscale and grass on 59.40 chs.

Gently rolling land on 80.00 chs.

North, bet. secs. 25 and 30.

Over gently rolling land through dense undergrowth.

Difference between measurements of 40.00 chs. by 2 sets of chainmen is 2 lks.; position of middle point

By 1st set, 40.01 chs.

By 2nd set, 39.99 chs.; the mean of which is

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap, marked

$\frac{1}{4}$  S 25 | S 30

1912

rdig pits 18x18x12 ins. N and S. of post on line, 3 ft. dist and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

60.00 Leave dense undergrowth, enter scattering.

70.00 Leave scattering undergrowth bears NW. and SE. enter barren lake beds.

Difference between measurements of 80.00 chs. by two sets of chainmen is 4 lks., position of middle point

By 1st set 80.02 chs.

By 2nd set 79.98 chs.; the mean of which is

80.00 Set an iron post, 36 ins. long, 3 ins. diam., 24 ins. in the ground for the cor. of secs. 19-24-25 and 30, with brass cap marked

T	3 N
R 9 W	R 8 W
S 24	S 19
+	
S 25	S 30

1912

dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

Land, gently rolling and level.

Soil, light sandy loam, 24 ins. deep, 1st and 2nd rate.

Subsoil, sand and clay.

No timber.

CHAINS	Undergrowth, greasewood and shadscale on 70.00 chs., barren land on 10.00 chs. Gently rolling land on 70.00 chs, level on the rest. North, bet. secs. 19 and 24. Over barren alkali lake bottom.
.50	Intersect high water mark on W. shore of Great Salt Lake, 30 chs. from waters edge., bears NW. and SE. Set an iron post, 36 ins. long, 3 in. in diam, 24 ins. in the ground, for meander cor. of fractional secs. 19 and 24, with brass cap, marked M.C. S 19 R 9 W. N.R. 8 W. June 28, 1912
	dig a pit 36x36x12 ins., 8 ft. S. of post, and raise a mound of earth, 4 ft. base, 2 ft. high S. of cor. Land, level. Soil, light sand with alkali, 24 ins. deep, 4th rate. Subsoil, sand. No timber. No undergrowth. June 28, 1912.
	<i>Claude L. Hirst</i> U.S. Transitman.

BOUNDARIES OF T. 3 N., R. 8 W., 1st Meridian, 4th section  
Latitudes, departures and closing errors.

Line Designated	True Bearing	Latitude Distance N.	Departures E. W.
South Bdy.	East 305.00		Chs. Chs.
			305.00 305.00
Meanders Sec. 34	N. 25° 00' E. 30.00 N. 10° 00' W. 12.00 N. 72° 00' W. 20.00 N. 15° 00' W. 12.00 N. 70° 00' W. 8.00 S. 74° 00' W. 49.13	27.19 11.82 6.18 11.59 2.74 13.54	12.68 2.08 19.02 3.11 7.52 47.23
Sec. 33	N. 49° 41' W. 52.58	34.02	40.09
Sec. 28	N. 63° 25' W. 44.65	19.98	39.93
Sec. 29	West 32.00		32.00
Sec. 30	N. 75° 00' W. 49.70	12.86	48.01
Sec. 19	N. 58° 25' W. 89.94 N. 76° 15' W. 2.05	47.10 .50	76.62 1199
	Carried Forward	173.98 ✓ 13.54 ✓	317.68 ✓ 317.60 ✓

## 2nd Guide Meridian West, through T.3 N., Between Rs.8 and 9 W.

Boundaries of T.3 N., R.8 W.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes N.	S.	Departures E.	W.
Brought Forward		Chs.,	Chs.	Chs.	Chs.	Chs.
2nd Guide Meridian W. South		160.50	173.98	13.54	317.68	317.60
Convergency				160.50		.09
Totals			173.98	174.04	317.68	317.69
Error in latitude				173.98		317.68
				0.06	Error in Dep.	0.01

For general description of Tp, see Subdivisions of T.3 N., R.8 W.

Claude L. Hirst

U.S. Transitman.

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BOOK A-400

## CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,  
....., U. S. Surveyor, during the periods and in the capacities  
stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book "L" T.2 S.R.6 W.

of the Meridian, in the State of

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above

# FINAL OATH OF UNITED STATES SURVEYOR.

I, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for bearing date of the day of , 191 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

For final oaths of U.S. Surveyor and Transitman see book "L" T.3 S.

E.6 N.

of the

Meridian, in the State of , which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said , and sworn to before me  
this day of , 191 }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Dec. 5 , 1914.

The foregoing field notes of the survey of the Guide Meridian through Townships 1 and 3 North, between Ranges 8 and 9 West, of the Salt Lake Base and Meridian, Utah

executed by John P. Stewart and Claude L. Heist

under special instructions dated May 28 , 1912 , having been critically examined, and the necessary corrections and explanations made to the said field notes, and the surveys they describe, are hereby approved.

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in , has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

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BOOK A-400

D.

## FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

of

Township No. 1 North, Range No. 8 West,

Of the Salt Lake Base and Meridian,

In the State of Utah

## EXECUTED BY

John R. Stewart

Claude L. Hoist

In the capacity of U. S. Surveyor and Transitman under instructions dated May 28, 1912, issued by the United States Surveyor General to govern surveys included in Group No. 11, which were approved by the Commissioner of the General Land Office, June 7, 1912, 1912, pursuant to authority contained in the Act of Congress dated , 1912.

Survey commenced June 7, 1912, 1912.

Survey completed July 9, 1912, 1912.

Sect. 68-5874-

PAGE A-400

## INDEX DIAGRAM.

Township 1 North, Range 8 West.

6	52	5	56	4	26	3	17	2	9	1
51		50		55		25		17		9
7	49	8	34	9	24	10	16	11	8	12
48		46		55		24		15		7
18	45	17	32	16	23	15	14	14	7	13
44		44		31		22		14		6
19	43	20	50	21	21	22	13	23	5	20
42		41		30		20		12		4
30	40	29	29	28	19	27	12	26	3	25
59		58		20		19		11		5
31	37	32	27	33	18	34	10	35	22	36

## Subdivision of T.1 N., R.8 W.

Survey commenced June 7, 1912, and executed with a Young and Sons light mountain transit, No. 8517, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on Feb. 17, 1912.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation, I proceed as follows:

At the Base Line cor. of Secs. 35 and 36, on S.bdy.of.Tp., heretofore described, latitude  $40^{\circ}46'04''$ N., longitude  $112^{\circ}42'54''$ W.; I set off  $40^{\circ}46'$ N., on the lat.arc,  $22^{\circ}49'$ N., on the decl. arc; and at 4 h 59 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

June 7, 1912.

June 8, 1912: At 2 h 26 m a.m., l.m.t., I observe Polaris at eastern elongation in accordance with the Manual of Instructions and mark a point in the line thus determined, by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor.

At 6 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris  $1^{\circ}31'$  to the west, and mark a point in the meridian thus determined, by a groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.35 ins. east of the mark determined by the solar.

## Sub. T. 1 N., R. 8 W. Continued.

Chains

At 6 h 59 m a.m., l.m.t., I set off  $40^{\circ}46'N.$ , on the lat. arc;  $22^{\circ}52'N.$ , on the decl. arc; and determined a meridian with the solar and mark a point thereof by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.37 ins. east of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about  $0'18''$  west and  $0'19''$  east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 7 h 30 m a.m. is  $N.16^{\circ}41'W.$ ; the angle thus determined gives the mag. decl.  $16^{\circ}41'E.$

From the Base cor. of secs. 35 and 36, I run

$N.0^{\circ}1'W.$ , bet. secs. 35 and 36.

Over level valley land; through barren alkali flat.

10.00 Enter scattering undergrowth, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap mkd.

$\frac{1}{4}$   
S 35 S 36  
1912.

Dig pits,  $18 \times 18 \times 12$  ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, with brass cap mkd.

T 1 N	R 8 W
S 26	S 25
S 35	S 36

1912.

Dig pits,  $18 \times 18 \times 12$  ins., in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

Land, valley.

Soil, clay loam and sand 3rd and 4th rate.

Sub.T.1 M., R.8 W.-Continued.

Chains

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 70.00 chs.

June 8, 1912: At this cor. I set off  $22^{\circ}52'W.$ , on the decl. arc; and at 11 h 59 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}47'W.$ , which is the proper lat. nearly.

N. $39^{\circ}54'W.$ , on a random line bet. secs. 25 and 36.

40.00 Set temp. & sec.cor.

80.14 Intersect N.bdy. of Tp., at the cor. of secs. 25, 30, 31, and 36. heretofore described. Thence I run

S. $39^{\circ}54'W.$ , on a true line bet. secs. 25 and 36.

Over level land; through barren alkali flat.

10.00 Enter scattering undergrowth, bears N. and S.

40.07 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor.. with brass cap mkd.

S 25

S 36

1912.

Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base and 2 ft. high, N. of cor.

80.14 The cor. of secs. 25, 26, 35, and 36.

Land, level.

Soil, clay loam and sand. about 3 ft. deep, 3rd rate.

No timber.

Undergrowth, shadscales and greasewood.

No grass

N. $0^{\circ}01'W.$ , bet. secs. 25 and 26.

Over level land; through dense greasewood and shadscales.

Sub.E.1 N., R.8 W.-Continued.

Chains

- 40.00 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor., with brass cap mkd.

.S 26 | S 25  
1912.

Dig pits, 18x18x12 ins., N. and S. of post, 5 ft. dist. and raise a mound of earth,  $5\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

- 80.00 Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor.of secs. 25, 24, 25, and 26, with brass cap mkd.

T 1 N | R 8 W  
S 25 | S 24.  
S 26 | S 25.  
1912.

Dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay loam and sand about 3 ft. deep, subsoil, clay about 3rd rate.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

June 8, 1912.

June 10, 1912; At 7 h 59 m a.m., J.m.t., I set off  $40^{\circ}46'W.$ , on the lat.arc;  $23^{\circ}02'N.$ , on the decl.arc; and determine a meridian with the soler, at the cor.of secs. 23, 24, 25, and 26.

Thence I run

$N.89^{\circ}54'E.$ , on a random line bet.secs. 24 and 25.

- 40.00 Set temp., sec.cor.

- 80.00 Intersect N.bdy. of Tp. 2 11 $\frac{1}{2}$  s. of the cor.of secs. 19, 24, 25 and 30, heretofore described.

Thence I run

$S.89^{\circ}53'W.$ , on a true line bet.secs. 24 and 25.

## Sub.T.1 N., R.8 W.-Continued.

Chains

Over level land; through dense undergrowth.

- 40.08 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor.. mkd.on brass cap

S 24S 25

1912.

Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

- 80.16 The cor. of secs. 23, 24, 25, and 26.

Land, level.

Clay and sandy soil, about 2 ft. deep, on subsoil of blue clay  
No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 80.16 chs.

N.0301'W., bet. secs. 23 and 24.

Over level land; through dense undergrowth.

- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

$\frac{1}{2}$	✓	✓	.	.	.	.
S 23	S 24					
1912.						

And dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 14, 23, and 24, with brass cap mkd.

T 1 N	R 8 W
S 14	S 13
S 23	S 24
1912.	

Dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, valley.

Soil, clay and sandy loam about 2 ft. deep, and 3rd ret.

Sub.T.1 N., R.8 W.-Continued.

Chains

Subsoil, blue clay.

No timber.

Undergrowth, shadscales, and greasewood.

No grass

Land covered with dense undergrowth, 80.00 chs.

N.89°53' E., on a random line bet:secs.13 and 24.

40.00 Set temp. $\frac{1}{4}$  sec.cor.

80.18 Intersect E.bdy.of Tp., 2 lks.N.of the cor.of secs.13,18,19, and 24, heretofore described.

Thence I run

S.89°54' W., on a true line bet.secs.13 and 24.

Over level land; through dense undergrowth.

40.09 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{4}$  sec.cor.with brass cap mkd.

$$\begin{array}{r} \frac{1}{4} \\ S \quad 13 \\ \hline S \quad 24 \\ 1912. \end{array}$$

Dig pits, 18x18x12 ins., E.and W.of post, 5 ft.dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.

80.18 The cor.of secs.13,14,23, and 24.

Land, level.

Soil, clay and sandy loam about 2 ft.deep, 3rd rate.

Subsoil, blue clay.

No timber.

Undergrowth, shadscales and greasewood.

Good grass in patches.

Land covered with dense undergrowth, 80.18 chs.

June 10, 1912: At this cor.I set off 23°03'N., on the decl. arc; and at 11 h 59 m a.m., 1:m.t., I observe the sun on the meridian, the resulting lat.is 40°49'N.; which is the proper lat.nearly.

## Sub.T.1 N., R.8 W.-Continued.

Chains

N.0°01'W., bet. secs. 13 and 14.

Over level land; through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor. with brass cap mkd.

$\frac{1}{4}$	
S 14	S 13
1912.	

Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, mkd. on brass cap

T 1 N	R 8 W
S 11	S 12
S 14	S 13
1912.	

Dig pits, 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay and sandy loam; 3rd rate about 2 ft. deep.

Subsoil, clay.

No timber.

Undergrowth, shadscales and greasewood.

No grass

Land covered with dense undergrowth, 80.00 chs.

N.89°54' E., on a random line bet. secs. 12 and 13.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.20 Intersect E. bdy. of Tp. 5 lks. S. of the cor. of secs. 7, 12, 13, and 18, heretofore described.

Thence I run

S.89°52' W., on a true line bet. secs. 12 and 13.

Over level land; through dense undergrowth.

40.10 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor. with brass cap mkd.

$\frac{1}{4}$	
S 12	
<u>S 1912.13</u>	

Sub.T.1 N., R.8 W.-Continued.

Chains Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
 80.20 The cor. of secs. 11, 12, 13, and 14.  
 Land, level.  
 Soil, clay and sandy loam about 2 ft. deep.  
 No timber.  
 Undergrowth, shadscales and greasewood.  
 No grass.  
 Land covered with dense undergrowth, 80.20 chs.

June 10, 1912.

June 11, 1912: At 6 h 59 m a.m., l.m.t., I set off  $40^{\circ}49'N.$ , on the lat.arc;  $23^{\circ}07'W.$ , on the decl.arc; and determine a meridian with the solar, at the cor. of secs. 11, 12, 13, and 14, thence I run  
 N. $0^{\circ}01'W.$ , bet. secs. 11 and 12.  
 Over level land; through dense undergrowth.  
 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor.. with brass cap mkd.  

$$\begin{array}{c|c} \frac{1}{2} & \\ \hline S & 11 | S 12 \\ & 1912. \end{array}$$
  
 Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist. and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 2, 11, and 12, with brass cap mkd.  

$$\begin{array}{c|c} T & 1 N | R 8 W \\ \hline S & 2 | S 1 \\ \hline S & 11 | S 12 \\ & 1912. \end{array}$$
  
 Dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
 Land, level.  
 Soil, clay; 3rd rate.  
 No timber.

Sub.T..1 N.R.8 W.- Continued.

- Chains. Undergrowth, shadscale and greasewood. No.grass.  
Land, covered with dense undergrowth, 80.00 chs.
- 
- N.89°52' E.on a random line bet.secs.1 and 12,  
40.00 Set temp. $\frac{1}{4}$  sec.cor.
- 80.10 Intersect E.bdy.of Tp.2 lks.N.of the cor.of secs.1,6,7,  
and 12, heretofore described. Thence I run  
S.89°53' W.on a true line bet.secs.1 and 12,  
Over level land; through dense undergrowth.  
40.05 Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the  
ground, for  $\frac{1}{4}$  sec.cor., with brass cap mkd.
- $\frac{1}{4}$   
S 1  
S 12  
1912
- Dig pits 18.x 18 x 12 ins.E.and W.of post 3 ft.dist.; and  
raise a mound of earth  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high N.of cor.  
80.10 The cor.of secs.1,2,11, and 12.  
Land, level.  
Soil, clay and sandy loam. Subsoil, clay.  
No timber.  
Undergrowth, shadscales and greasewood. No grass.  
Land, covered with dense undergrowth 80.10 chs.
- 
- N.0° 01' W.on a random line bet.secs.1 and 2,  
40.00 Set temp. $\frac{1}{4}$  sec.cor.
- 80.00 Intersect random N.bdy.of Tp. 9 lks.W.of the temp.cor.of  
secs.1,2,35, and 36.  
Note:The permanent cor.of secs.1,2,35, and 36 was after-  
ward set 4.53 chs.N.of this temp.cor.point, in the es-  
tablishment of the true north boundary.  
From said temp.cor. I run  
S.0°03' W.on true line bet.secs.1 and 2,  
Over nearly level land; through dense undergrowth.

Sub.T.1 N.R.8 W.- Continued.

- Chains. At 40.00 chs. from my point of intersection, or at .  
 44.53 Counting from the true cor. of secs. 1, 2, 35, and 36,  
     Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the  
     ground, for  $\frac{1}{4}$  sec.cor., with brass cap mkd.  
                 S 2 S 1  
                 1912  
     dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.,  
     and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of  
     cor.  
 At 80.00 chs., or  
 84.53 (Counting from point of permanent cor.) the cor. of secs.  
     1, 2, 11, and 12.  
     Land, level.  
     Soil, clay and sandy loam; 3rd rate.  
     No timber.  
     Undergrowth, shadscales and greasewood. No grass.  
     Land covered with dense undergrowth 84.53 chs.  
 June 11, 1912: At this cor. I set off  $23^{\circ}07'N.$  on the decl.  
     arc; and at 11h 59m a.m. l.m.t., I observe the sun on  
     the meridian; the resulting lat. is  $40^{\circ}50'N.$ , which is  
     the proper lat. nearly
- 
- From the Base Line cor. of secs. 34 and 35, on S.bdy. of Tp.  
 heretofore described I run  
 N.  $0^{\circ} 02'W.$  bet. secs. 34 and 35,  
 Over gently rolling valley land; through dense undergrowth.  
 37.40 County road, bears NW. and SE.  
 40.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the  
     ground, for  $\frac{1}{4}$  sec.cor., with brass cap mkd.  
                 S 34 S 35  
                 1912  
     dig pits 18 x 18 x 12 ins. N. and S. of post 3 ft. dist.;  
     and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 80.00 Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the  
     ground, for cor. of secs. 26, 27, 34, and 35, with brass cap  
     mkd.      T 1 N | R 8 W  
                 S 27 S 36  
                 S 34 S 35  
                 1912

## Sub.T.1 N., R.8 W.-Continued.

Chains  
 Dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
 Land, gently rolling valley.  
 Soil, clay and sandy loam; 3rd rate, about 2 ft. deep.  
 Subsoil, clay.  
 No timber.  
 Undergrowth, shadscales and greasewood.  
 Good grass in patches.  
 Land covered with dense undergrowth, 80.00 chs.

June 11, 1912.

June 12, 1912: At 6 h 59 m a.m., l.m.t., I set off 40°47'N., on the lat.arc; 23°11'W., on the decl.arc; and determine a meridian with the solar, at the cor. of secs. 26, 27, 34, and 35.

Thence I run

N.89°54'E., on a random line bet. secs. 26 and 35.

40.00 Set temp. of sec.cor.

80.14 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 25, 26, 35, and 36.

Thence I run

S.89°52'W., on a true line bet. secs. 26 and 35.

Over level land; through dense undergrowth.

40.07 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor.. mkd. on brass cap ~~xx3x26xinxX~~

$\frac{1}{4}$   
S 26

$\frac{1}{4}$   
S 35

1912.

Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

80.14 The cor. of secs. 26, 27, 34, and 35.

Land, level.

Soil, clay and sandy loam; 3rd rate, about 2 ft. deep.

## Sub.T.1 N., R.8.W.-Continued.

Chains

No timber.

Undergrowth, dense shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 80.14 chs.

N.0°02'W., bet. secs. 26 and 27.

Over level land; through dense undergrowth.

40.00

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

S 27	S 26
1912.	

Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

80.00

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, with brass cap mkd.

T 1 N	R 8 W
S 22	S 23
S 27	S 26
1912.	

Dig pits, 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay and sandy loam; 2nd rate.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 80.00 chs.

June 12, 1912: At this cor. I set off 23°11'N., on the decl. arc; and at 11 h 59 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40°48'N., which is the proper lat. nearly.

N.89°52'E., on a random line bet. secs. 23 and 26.

40.00 Set temp. 1 sec.cor.

- Chains  
80.04 Intersect N. and S. line, at the cor. of secs. 23, 24, 25, and 26.  
Thence I run  
S. 89° 52' W., on a true line bet. secs. 23 and 26.  
Over level land; through dense undergrowth.  
40.02 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the  
ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.  

$$\begin{array}{c} \frac{1}{2} \\ S 23 \\ \hline S 26 \\ 1912. \end{array}$$
  
Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise  
a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
80.04 The cor. of secs. 22, 23, 26, and 27.  
Land, level.  
Soil, sandy and clay loam; 2nd and 3rd rate.  
Subsoil, clay.  
No timber.  
Undergrowth, shadscalars and greasewood.  
No grass.  
Land covered with dense undergrowth, 80.04 chs.  

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N. 0° 02' W., bet. secs. 22 and 23.  
Over level land; through dense undergrowth.  
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the  
ground, for  $\frac{1}{2}$  sec. cor., with brass cap mkd.  

$$\begin{array}{c} \frac{1}{2} \\ S 22 \quad S 23 \\ \hline 1912. \end{array}$$
  
Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and  
raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the  
ground, for cor. of secs. 14, 15, 22, and 23, with brass cap mkd.  

$$\begin{array}{c|c} T & 1 \\ \hline N & R 8 \\ \hline S 15 & S 14 \\ \hline S 22 & S 23 \\ \hline 1912. \end{array}$$
  
Dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.; and raise

## Sub.T.1 N., R.BW.-Continued.

Chains	a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level. Soil, clay loam and sandy 3rd rate about 2 ft. deep. Subsoil, clay No timber. Undergrowth, shadscales and greasewood. No grass. Land covered with dense undergrowth, 80.00 chs.
	N. 89° 52' E., on a random line bet. secs. 14 and 23.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, 2 lks. S. of the cor. of secs. 13, 14, 23, and 24. Thence I run S. 89° 51' W., on a true line bet. secs. 14 and 23. Over level land; through dense undergrowth.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap
	$\frac{1}{4}$ <u>S 14</u> <u>S 23</u> 1912.
	Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
80.00	The cor. of secs. 14, 15, 22, and 23. Land, level. Soil, sandy and clay loam; 3rd rate. Subsoil, clay. No timber. Undergrowth, shadscales and greasewood. No grass. Land covered with dense undergrowth, 80.00 chs.
	June 12, 1912.
	June 13, 1912: At 7 h 0 m a.m., l.m.t., I set off 40° 48' N.,

Sub.T.1 N., R.8 W.-Continued...

Chains on the lat.arc;  $23^{\circ}15'N.$ , on the decl.arc; and determine a meridian, with the solar, at the cor.of secs.14,15,22, and 23.

Thence I run

$N.0^{\circ}02'W.$ , bet.secs.14 and 15.

Over gently rolling valley land; through dense undergrowth.

40.00 Set an iron post,  $\frac{3}{4}$  ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{2}$  sec.cor., with brass cap mkd.

S 15	S 14
1912.	

Dig pits,  $18 \times 18 \times 12$  ins.N.and S.of post,  $3$  ft.dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, W.of cor.

80.00 Set an iron post,  $\frac{3}{4}$  ft.long,  $\frac{3}{4}$  ins.in dia., 24 ins.in the ground, for cor.of secs.10,11,14, and 15, with brass cap mkd.

T 1 N	R 8 W
S 10	S 11
S 15	S 14
1912.	

Dig pits,  $18 \times 18 \times 12$  ins.in each sec. $5\frac{1}{2}$  ft.dist.; and raise a mound of earth,  $4$  ft.base,  $2$  ft.high, W.of cor.

Land,nearly level.

Soil,clay loam and sandy 3rd rate.and about 2 ft.deep.

Subsoil,clay.

No timber.

Undergrowth,shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 80.00 chs.

$N.89^{\circ}51'W.$ , on a random line bet.secs.11 and 14.

40.00 Set temp. $\frac{1}{2}$  sec.cor.

80.02 Intersect N.and S.line, 2 lks.N.of the cor.of secs.11,12,15, and 14.

Thence I run

$S.89^{\circ}52'W.$ , on a true line bet.secs.11 and 14.

Over level valley; through dense undergrowth.

40.01 Set an iron post,  $\frac{3}{4}$  ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{2}$  sec.cor.with brass cap mkd.

## Sub.T.1 N., R.8 W.-Continued.-

Chains

S	11
S	14
1912.	

Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.02 The cor. of secs. 10, 11, 14, and 15.

Land, level.

Soil, clay and sandy loam; 3rd rate. Subsoil, clay.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 80.02 chs.

N.  $0^{\circ}02'$  W., bet. secs. 10 and 11

Over gently rolling valley; through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap mkd.

S 10	S 11
1912.	

Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 2, 3, 10, and 11, with brass cap mkd.

T 1 N	R 8 W
S 3	S 2
S 10	S 11
1912	

Dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor..

Land, nearly level.

Soil, clay and sandy loam; 3rd rate, and about 2 ft. deep.

Subsoil, clay.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 80.00 chs.

June 13, 1912: At this cor. I set off  $23^{\circ}14'W.$ , on the decl.

## Sub.T.1 N., R.8 W.-Continued.

Chains

arc; and at 11 h 59.9 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}50'W.$ , which is the proper lat. nearly.

---

$N.89^{\circ}52'W.$ , on a random line bet. secs. 2 and 11.

40.00 Set temp. &amp; sec.cor.

80.08 Intersect N. and S.line, 5 lks.N.of the cor.of secs. 1, 2, 11, and 12.

Thence I run

 $S.89^{\circ}54'W.$ , on a true line bet. secs. 2 and 11.

Over gently rolling land; through dense undergrowth.

40.04 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1 sec.cor., with brass cap mkd.

$$\begin{array}{r} \frac{1}{2} \\ \frac{S}{S} \quad \frac{2}{11} \\ \hline 1912. \end{array}$$

Dig pits,  $18 \times 18 \times 12$  ins. E. and W. of post, 5 ft. dist.; and raise a mound of earth,  $\frac{3}{4}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.08 The cor.of secs. 2, 3, 10, and 11.

Land, gently rolling.

Soil, clay loam and sandy; 3rd rate.

No timber.

Undergrowth, sage, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 80.08 obs.

 $N.0^{\circ}02'W.$ , on a random line bet. secs. 2 and 3.

40.00 Set temp. &amp; sec.cor.

84.70 Intersect N.bdy.of Tp., 21 lks.W.of the cor.of secs. 2, 3, 34, and 35, heretofore described.

Thence I run

 $S.0^{\circ}07'W.$ , on a true line bet. secs. 2 and 3.

Over gently rolling land; through dense undergrowth.

## Sub.T.1 N., R.8 W.-Continued.

Chains

- 44.70 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor.. mkd. on brass cap

$\frac{1}{2}$	
S 33	S 34
1912.	

- Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 84.70 The cor. of secs. 2, 3, 10, and 11.  
Land, gently rolling.  
Soil, clay and sandy; 3rd rate.  
No timber.  
Undergrowth, shadscales and greasewood.  
No grass.  
Land covered with dense undergrowth, 84.70 chs.

June 13, 1912.

June 14, 1912. At 7 h' 0 m a.m., l.m.t., I set off  $40^{\circ}46'N.$ , on the lat.arc;  $23^{\circ}18'W.$ , on the decl.arc; and determine a meridian with the solat, at the Base Line cor. of secs. 33 and 34, on S.bdy. of Tp. heretofore described. Thence I run N.  $0^{\circ}2'W.$ , bet. secs. 33 and 34.

Over level valley and barren alkali flat.

- , 6.25 Enter dense undergrowth, bears E. and W.  
22.25 Leave undergrowth, enter alkali flat, bears NW and SE.  
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

$\frac{1}{2}$	
S 33	S 34
1912.	

- Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. dia., 24 ins. in the ground, for cor. of secs. 27, 28, 33, and 34, mkd. on brass cap

T 1 N	R 8 W
S 28	S 27
S 33 1912 S 34	

Sub. T. 1 N., R. 8 W.-Continued.

Chains	Dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. I found no trace of old $\frac{1}{4}$ sec. nor sec. corners. Land, mountainous. Soil, salty clay on barren flat; and clay loam on land covered with undergrowth. Subsoil, clay. No timber. Undergrowth, shadscales and greasewood. No grass. Land covered with dense undergrowth, 16.00 chs.
	N. $89^{\circ}54' E.$ , on a random line bet. secs. 27 and 34.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 26, 27, 34 and 35. Thence I run S. $89^{\circ}52' W.$ , on a true line bet. secs. 27 and 34. Over level land, through dense undergrowth.
28.50	County road, bears NW. and SE.
40.04	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., with brass cap mkd.
	$\frac{1}{4}$ <u>S 27</u>
	S 34 1912
	dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist. and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
65.00	Leave undergrowth, enter alkali flat, bears NW. and SE.
80.08	The cor. of secs. 27, 28, 33 and 34. Land, level. Soil, clay loam, salty on alkali flat. No timber. Undergrowth, shadscales and greasewood. No grass. Land covered with dense undergrowth, 65.00 chs.
	N. $0^{\circ}02' W.$ , bet. secs. 27 and 28. Over level land, barren alkali flat.

## Sub. T. 1 N., R. 8 W.-Continued.

Chains

- 34.00 Enter dense greasewood and shadscales, bears NW. and SE.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., mkd. on brass cap
- |      |      |
|------|------|
| S 28 | S 27 |
| 1912 |      |
- Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 61.00 Wagon road, bears NW. and SE.
- 73.50 County road, bears N. $60^{\circ}$ E. and S. $60^{\circ}$ W.
- 78.60 Wagon road, bears NW. and SE.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, mkd. on brass cap

T 1 N	R 8 W
S 21	S 22
S 28	S 27
1912	

Dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. I found no trace of old  $\frac{1}{4}$  sec. or sec. corners. Land, level. Soil, clay, 2nd and 4th rate.

No timber. Undergrowth, shadscales and greasewood.

No grass. Land covered with dense undergrowth, 46.00 chs.

June 14, 1912: At this cor. I set off  $23^{\circ}17'N.$ , on the decl. arc; and at 11h 59.9m a.m. l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}48'N.$ , which is the proper lat. nearly.

N. $89^{\circ}52'E.$ , on a random line bet. secs. 22 and 27.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.10 Intersect N. and S. line, 2 lks. S. of the cor. of secs. 22, 23, 26 and 27.

Thence I run

S. $89^{\circ}51'W.$ , on a true line bet. secs. 22 and 27.

Over level land, through dense undergrowth.

## Sub.T.1 N., R.8 W.-Continued.

Chains

- 40.05 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor., with brass cap mkd.

S	22
S	27
1912.	

Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

- 48.75 County road, bears N. and S.

- 67.25 Road, bears N.  $70^{\circ}$ E. and S.  $70^{\circ}$ W.

- 80.10 The cor.of secs.21,22,27, and 28.

Land, level.

Soil, clay loam 2nd rate ; about 5 ft. deep.

No timber.

Undergrowth, shadscales and greasewood..

No grass.

and covered with dense undergrowth, 80.10 chs.

N. $0^{\circ}02'W.$ , betsecs.21 and 22.

Over level land; through dense undergrowth.

- 20.00 Road, bears NE and SW.

- 23.50 Road, bears N.  $70^{\circ}$ E. and S.  $70^{\circ}$ W.

- 25.00 Leave valley, bears NW and SE.

Asc.mountain.

- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on hard pan, and surrounded by mound of stone, for  $\frac{1}{2}$  sec.cor., with brass cap mkd.

S	21		S	22
1912.				

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

- 50.60 Top of ridge, 600 ft. above valley, bears NW and SE.

Desc.abruptly over ledges.

- 64.00 Bottom of swale, 400 ft. below ridge, course NE.

Asc.over ledges.

- 77.90 Rocky spur, 400 ft. above swale, bears N.  $70^{\circ}$ E. and S.  $70^{\circ}$ W.

## Sub.T.1 N., R.8 T.-Continued.

Chains Desc. over ledges.

- 30.00 Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of stone, for cor. of secs. 15, 16, 21, and 22, with brass cap mkd.

T 1 N	R 8 W
S 16'	S 15'
S 21'	S 22'

1912.

And raise a mound of stone, 2 ft. base 1½ ft. high, W. of cor.

- 3.25.00 chs. valley land, with clay loam soil and clay subsoil and covered with dense shadscales and greasewood. N. 65.00 chs. is rough and mountainous covered with ledges and boulders of limestone; the soil is very rocky; and the subsoil is rock and gravel. Undergrowth is shadscales and greasewood and some sage brush.

No timber.

Grass in patches on the mountainous land.

Mountainous land, or land covered with dense undergrowth, 80.00 chs.

I found no trace of old  $\frac{1}{4}$  sec. or sec. corners.

N. 89° 51' E., on a random line bet. secs. 15 and 22.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.

- 80.14 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 14, 15, 22, and 23.

Thence I run

S. 89° 55' W., on a true line bet. secs. 15 and 22.

Over level, valley, land; through dense undergrowth.

- 40.07 Set an iron post, 3 ft. long, 1 in. in dia., 26, ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap mkd.

S 15
S 22

1912.

Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

- 61.30 Wagon road, bears N. and S.

- 73.02 Leave flat, asc over ledges, bears N. and S.

- 80.14 The cor. of secs. 15, 16, 21, and 22.

Land, mountainous and level.

Sub.T.1 N., R.8 W.-Continued.

Chains

Soil, clay loam on clay 2nd rate and loose rock and sand on mountainous land; 3rd and 4th rate.

No timber.

Undergrowth, shadscales and greasewood and some sage.

No grass.

June 14, 1912.

June 15, 1912: At 7 h 0 m a.m., l.m.t., I set off  $40^{\circ}42'W.$ , on the lat.arc;  $23^{\circ}20'N.$ , on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 15, 16, 21, and 22.

Thence I run

$N.0^{\circ}02'W.$ , bet.secs. 15 and 16.

Over mountainous land; through dense undergrowth.

Desc.abruptly over limestone ledges and boulders.

3.00 Leave ledges and boulders, bears  $N.70^{\circ}E.$  and  $S.70^{\circ}W.$

6.00 Foot of descent, 200 ft. below sec.cor., bears  $N.70^{\circ}E.$  and  $S.70^{\circ}W$ . Enter valley.

15.00 Road, bears  $N.30^{\circ}W.$  and  $S.30^{\circ}E.$

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{4}$  sec.cor.with brass cap mkd.

$\frac{1}{4}$	
S 16	S 15
1912.	

Dig pits,  $18 \times 18 \times 12$  ins.N.and S.of post, 3 ft.dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high,  $\frac{1}{2}$  of cor.

80.00 Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs. 9, 10, 15, and 16, with brass cap mkd.

T 1 N	R 8 W
S 9	S 10
S 16	S 15
1912.	

Dig pits,  $18 \times 18 \times 12$  ins., in each sec.  $5\frac{1}{2}$  ft.dist.; and raise a mound of earth, 4 ft.base, 2 ft.high,  $\frac{1}{2}$  of cor.

Land, mountainous and level.

Soil, clay loam; 2nd rate.

No timber.

Undergrowth, shadscales and greasewood.

Chains

No grass.

Mountainous land, or land covered with dense undergrowth,  
30.00 chs.

I found no trace of old  $\frac{1}{4}$  sec. or sec. corners.

N.89°55' E., on a random line bet. secs. 10 and 15.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.18 Intersect N. and S. line, 2 lks. S. of the cor. of secs. 10, 11, 14,  
and 15.

Thence I run

S.89°54' W., on a true line bet. secs. 10 and 15.

Over level valley; through dense undergrowth.

40.09 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the  
ground, for  $\frac{1}{4}$  sec.cor. with brass cap mkd.

$\frac{1}{4}$   
S 10  
S 15  
1912.

Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise  
a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

65.60 County road, bears N. and S.

80.18 The cor. of secs. 9, 10, 15, and 16.

Land, level valley.

Soilclay loam; 2nd rate. about 3 ft. deep.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 80.18 chs.

N.0°02' W., bet. secs. 9 and 10

Over level valley.; through dense undergrowth.

30.00 Road, bears NW. and SE. (County road.)

37.50 Road, bears NE and SW. (County road.)

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the  
ground, for  $\frac{1}{4}$  sec.cor. with brass cap mkd.

$\frac{1}{4}$  S.9 | S 10  
1912.

Sub.T.1 N., R.8 W.-Continued.

- Chains And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.
- 41.00 Leave valley, bears NE and SW.  
Asc.
- 48.15 Top of spur, 150 ft. above valley, bears E. and W.  
Desc.
- 50.50 Foot of descent, 150 ft. below spur, bears NW and SE.  
Enter valley.
- 62.00 Road, bears NW and SE.
- 68.25 Road, bears N.30°W. and S.30°E.
- 74.50 County road, bears N.30°W. and S.30°E.
- 80.00 Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 5, 4, 9, and 10, with brass cap mkd.

T 1 N	R 8 W
S 4	S 3
S 9	S 10
1912.	

Dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous and level valley.

Soil, clay loam; 2nd rate.

No timber.

Undergrowth, sage, shadscale and greasewood.

No grass.

Mountainous land, or land covered with dense undergrowth, 80.00 chs. I found no trace of old  $\frac{1}{4}$  sec. or sec. corners. June 15, 1912.: At this cor. I set off 25°20' N., on the decl. arc; and at 0 h 0.2 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40°50' W., which is the proper lat. nearly.

H.89°54'E., on a random line bet. secs. 5 and 10.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.16 Intersect N. and S. line, 150 ft. at the cor. of secs. 2, 3, 10, and 11.

Thence I run

S.89°54'W., on a true line bet. secs. 5 and 10.

Over level land; through dense undergrowth.

## Sub.T.1 N., R.8 W.-Continued.

Chains

- 40.08 Set an iron post, 5 ft.; long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor. with brass cap mkd.

$$\begin{array}{r} \frac{1}{4} \\ S \quad 3 \\ \hline S \quad 10 \\ 1912. \end{array}$$

Dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

- 80.16 The cor. of secs. 3, 4, 9, and 10.

Land, level.

Soil, clay; 3rd rate. 3 ft. deep.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 80.16 chs.

N.  $0^{\circ}02'W.$ , on a random line bet. secs. 3 and 4.

- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.

- 84.86 Intersect N.bdy. of Tp., 30 lks. W. of the cor. of secs. 3, 4, 33, a 34, heretofore described.

Thence I run

S.  $0^{\circ}11'W.$  on a true line bet. secs. 3 and 4.

Over level valley; through dense undergrowth.

- 44.86 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor. mkd. on brass cap

$$\begin{array}{r} \frac{1}{4} \\ S \quad 4 \quad | \quad S \quad 3 \\ \hline \end{array}$$

1912.

Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

- 74.05 Road, bears N.  $60^{\circ}E.$  and S.  $60^{\circ}W.$

- 84.86 The cor. of secs. 3, 4, 9, and 10.

Land, level.

Clay loam about 3 ft. deep; 2nd rate.

No timber.

Undergrowth, shadscales and greasewood.

Sub. T. 1 N., R. 8 W.-Continued.

Chains	No grass. Land covered with dense undergrowth, 84.86 chs.
	June 15, 1912. <i>Claude L. Hart.</i> U. S. Transitman.
	<p>Survey commenced July 3, 1912, and executed with a W. and L. E. Gurley Solar Compass, No. 101111. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs. The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on May 5, 1912.</p> <p>Note: For test of instrument see notes of Retracement Salt Lake Base Line through Range 8 W.</p> <p>July 3, 1912: At 7h 4m a.m. l.m.t., at the Base Line cor. of secs. 32 and 33 on S. bdy. of Tp., heretofore described, latitude <math>40^{\circ}46'04''N.</math>, I set off <math>40^{\circ}46'N.</math>, on the lat. arc; <math>23^{\circ}00'N.</math>, on the decl. arc; and determine a meridian with the solar.</p> <p>Thence I run N.<math>0^{\circ}03'W.</math>, bet. secs. 32 and 33. Over level valley; through dense undergrowth.</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for <math>\frac{1}{4}</math> sec. cor., mkd. on brass cap</p> <p style="text-align: center;"><math>S \frac{1}{4}   S 32   S 33</math> 1912.</p> <p>Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, W. of cor.</p> <p>80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 28, 29, 32 and 33, mkd. on brass cap</p>

Sub. T. 1 N., R. 8 W.-Continued.

Chains

T 1 N	R 8 W
S 29	S 28
S 32	S 33

1912

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Land level.

Soil, clay loam, 2 ft. deep, 2nd rate. Subsoil, clay.

No timber. Undergrowth, shadscales and greasewood.

Good grass in patches.

Land covered with dense undergrowth, 80.00 chs.

N. $89^{\circ}54' E.$ , on a random line bet. secs. 28 and 33.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.12 Intersect N. and S. line, 2 lks. S. of the cor. of secs. 27, 28, 33 and 34.

Thence I run

S. $89^{\circ}53' W.$ , on a true line bet. secs. 28 and 33.

Over level valley, across barren alkali flat.

40.06 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec. cor., with brass cap mkd.

$\frac{1}{4}$   
S 28

S 33  
1912

Dig pits, 18x18x12 ins. E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

56.00 Leave alkali flat, bears N. and S.

Enter dense undergrowth.

80.12 The cor. of secs. 28, 29, 32 and 33.

Land, level valley.

Soil, clay loam, 2nd and 3rd rate.

No timber.

Undergrowth, shad scales and greasewood. No grass.

Land covered with dense undergrowth, 24.12 chs.

July 3, 1912: At this cor. I set off  $22^{\circ}58' N.$ , on the decl. arc, and at 0h4m p.m. 1.m.t., I observe the sun on the

## Sub.T.1 N.R.8 W.-Continued.

Chains

meridian, the resulting lat. is  $40^{\circ}47'W.$ , which is the proper lat. nearly.

$N.0^{\circ}03'W.$ , bet. secs. 28 and 29.

Over level land; through dense undergrowth.

0.20 Wagon road, bears  $N.60^{\circ}E.$  and  $S.60^{\circ}W.$ .

10.90 Leave valley, bears  $N.60^{\circ}E.$  and  $S.60^{\circ}W.$

Asc. rocky slope.

14.00 Point of spur, 100 ft. above valley, bears E. and W.

Desc. along steep rocky slope.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of stone, for 1 sec. cor. with brass cap mkd.

$\frac{1}{2}$	S 29	S 28
---------------	------	------

1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

50.00 Bottom of swale, 75 ft. below spur, course E.

Asc.

73.00 Low spur, 20 ft. above swale, bears E. and W.

75.00 Foot of descent, bears NW and SE.

Enter valley.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 20, 21, 28, and 29, with brass cap mkd

T 1 <sup>W</sup>	N R 8 <sup>W</sup>
S 20	S 21
S 29	S 28

1912.

Dig pits,  $18 \times 18 \times 12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land mountainous and level.

Soil, clay loam in valley and rocky on mountain.

No timber.

Undergrowth, shadscales and greasewood.

A very little grass.

Mountainous land, or land covered with dense undergrowth, 80.00 chs.

July 3, 1912.

## Sub. Ell N., R. 8 W.-Continued.

Chains

July 5, 1912: At 7 h 4 m a.m., l.m.t., I set off  $40^{\circ}48'N.$ , on the lat.arc;  $22^{\circ}49'N.$ , on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 20, 21, 28, and 29. Thence I run

$N.89^{\circ}55'E.$ , on a random line bet.secs. 21 and 28.

40.00 Set temp. $\frac{1}{4}$  sec.cor.

80.08 Intersect N.and S.line, 7 lks.S.of the cor.of secs. 21, 22, 27, and 28.

Thence I run

$S.89^{\circ}50'W.$ , on a true line bet.secs. 21 and 28.

Over level valley; through dense undergrowth.

.20 Road, bears  $N.30^{\circ}W.$  and  $S.30^{\circ}E.$

20.00 Road, bears NE and SW.

25.00 Road, bears NW and SE.

39.00 Leave greasewood and enter shadscales, bears N.and S.

40.04 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{4}$  sec.cor.with brass cap mkd.

$\frac{1}{4}$   
S 21  
—  
S 28  
1912.

Dig pits,  $18 \times 18 \times 12$  ins.E.and W.of post, 3 ft.dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft.base.  $1\frac{1}{2}$  ft.high, N.of cor.

78.80 Road, bears N.and S.

80.08 The cor.of secs. 20, 21, 28, and 29.

Land, level.

Soil, clay loam; 2nd rate about 2 ft.deep. Subsoil, clay.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Land covered with dense undergrowth, 80.08 chs.

$N.0^{\circ}03'W.$ , bet.secs. 20 and 21.

Over level land; through dense undergrowth.

14.00 Old road, bears E.and W.

## Sub.T.1 N., R.8 W.-Continued.

Line

- 53.00 Old road,bears N. $30^{\circ}$ W.and S. $30^{\circ}$ E.  
 50.00 Set an iron post, 3 ft.long, 1 in. in dia., 26 ins.in the ground, for  $\frac{1}{2}$  sec.cor..with brass cap mkd.

$\frac{1}{2}$	
S 20	S 21
1912.	

And raise a mound of stone, 2 ft.base, $1\frac{1}{2}$  ft.high,W.of cor.

- 54.65 Road,bears NW and SE.

- 56.00 Wash, 40 lks.wide, 4 ft.deep, course SE.

- 60.70 Old road,bears NW and SE.

- 69.90 Old road,bears NE and SW.

- 74.00 Begin ascent of mountain,bears E.and W.

Enter scattering cedar timber,bears E.and W.

- 80.00 Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.16,17,20, and 21,with brass cap mkd

T 1 N	R 8 W
S 17	S 16
S 20	S 21
1912.	

And raise a mound of stone, 2 ft.base, $1\frac{1}{2}$  ft.high,W.of cor.

S.74.00 chs.rolling valley;soil clay loam mixed with streaks of gravel about 2 ft.deep,2nd rate;and covered with a dense undergrowth of shadscales and greasewood.

N.6.00 chs.gradual south slope of ridge,with gravelly and rocky soil;covered with dense shadscales and greasewood, and a few scattering scrub cedar timber.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth,

80.00 chs.

July 5, 1912:At this cor.I set off  $22^{\circ}47'W.$ ,on the decl. arc;and at 0 h 4 m p.m..l.m.t..I observe the sun on the meridian,theresulting lat.is  $40^{\circ}49'N.$ ,which is the proper lat.nearly.

N. $89^{\circ}50'E.$ ,on a random line betsecs.16 and 21.

- 40.00 Set temp. sec.cor.

## Sub.T.1 N., R.8 W.-Continued.

- Chains
- 80.12 Intersect N. and S. line, at the cor. of secns. 16, 16, 21, and 22.  
Thence I run  
S.  $89^{\circ}50'W.$ , on a true line bet. secns. 16 and 21.  
Over mountainous land; through scattering undergrowth.  
And over limestone boulders.
- 26.50 Top of ridge, 300 ft. above cor., bears N. and S.  
Leave boulders; desc.
- 40.06 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the  
ground, on solid rock, and surrounded by mound of stone;  
for  $\frac{1}{2}$  sec.cor. mkd. on brass cap  

$$\begin{array}{r} \frac{1}{2} \\ \hline S 16 \\ S 21 \\ 1912. \end{array}$$
  
And raise a mound of stone, 2 ft. base,  $\frac{1}{2}$  ft. high, N. of cor.
- 42.50 Bottom of hollow, 250 ft. below ridge, course S.  
Enter scattering cedar timber, bears N. and S.  
Asc.
- 59.00 Top of ridge, 50 ft. above hollow, bears N. and S.  
Desc.
- 80.12 The cor. of secs. 16, 17, 20, and 21.  
Land, mountainous.  
Soil, clay, mixed with limestone rocks and gravel, about 1  
ft. deep.  
Timber, cedar.  
Undergrowth, shadscales.  
Good grass.  
Mountainous land, 80.12 chs. July 8, 1912:  
July 6, 1912: At 7 h 4 m a.m., 1 m., t., I set off  $40^{\circ}49'N.$ , on the  
lat. arc;  $22^{\circ}44'W.$ , on the decl. arc; and determine a meridian  
with the solar; at the cor. of secs. 16, 17, 20, and 21. Thence I run  
N.  $0^{\circ}03'W.$ , bet. secs. 16 and 17.  
Over mountainous land; through dense undergrowth and  
scattering timber.  
Asc.
- 33.00 Top of limestone ledge, 50 ft. high, bears N.  $30^{\circ}E.$  and S.  $30^{\circ}W.$
- 34.00 Top of ridge, 1000 ft. above sec.cor., bears N.  $60^{\circ}W.$  and

Sub.T.1 N., R.8 W.-Continued.

- Chains and S.60°E.
- Desc..
- 40.00 Set an iron post, 3 ft.long, 1 in.in dia., 12 ins.in the ground, on rock, and surrounded by mound of stone, for  $\frac{1}{2}$  sec cor.with brass cap mkd.
- |       |      |
|-------|------|
| S17   | S 16 |
| 1912. |      |
- Raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high, W.of cor.
- 47.50 Bottom of canon, 500 ft.below ridge, course S.60°E.
- Asc.
- 69.00 Top of ridge, 600 ft.above canon, bears N.80°W.and S.80°E.
- Desc.abruptly over ledges.
- 80.00 Set an iron post, 3 ft.long, 2 ins.in dia., 14 ins.in the ground, on solid rock, and surrounded by mound of stone, for cor.of secs.8,9,16, and 17,with brass cap mkd.
- |       |       |
|-------|-------|
| T 1 N | R 8 W |
| S 8   | S 9   |
| S 17  | S 16  |
| 1912. |       |
- And raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high, W.of cor.
- Land rough mountains.
- Soil,clay well mixed with limestone ,Subsoil,rock.
- Timber,cedar .
- Undergrowth,shadscales ,sage, and mahogany.
- Good grass for grazing.
- Mountainous land,or land covered with dense undergrowth,
- 80.00 chs.
- July 6,1912:At this cor.I set off 22°41'N.,on the decl. arc;and at 0 h 4 m p.m.,l.m.t.,I observe the sun on the meridian, the resulting lat.is 40°50'N.,which is the proper lat.nearly.
- 
- N.89°50'E.,on a random line be'.secs.9 and 16.
- 40.00 Set temp. $\frac{1}{2}$  sec.cor.
- 80;20 Intersect N.and S.line5 lks:N.of the cor.of secs.9,10,15, and 16.

## Sub.T.1 N., R.8 W.-Continued.

Chains

Thence I run  
 $S.89^{\circ}52'W.$ , on a true line bet. secs. 9 and 16.  
 Over level valley; through dense undergrowth.

14.00 Leave valley, bears N. and S.

Asc.

50.05 Enter ledges, bears N. and S.

40.10 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the  
 ground, on rock, and surrounded by mound of stone, for  
 sec.cor. with brass cap mkd.

$$\begin{array}{r} \frac{1}{4} \\ S. 9 \\ \hline S. 16 \\ 1912. \end{array}$$

And raise a mound of stone, 2 ft. base, 1 ft. high, N. of cor.

70.00 Leave ledges, bears N. and S.

Enter scattering timber, bears N. and S.

80.20 The cor. of secs. 8, 9, 16, and 17.

Land, E. 15.00 chs. valley with clay loam soil, 2nd rate.

W. 65.00 chs. East slope of mountain, with gravelly soil  
 with some rock.

Timber, scattering cedars . . .

Undergrowth, shadscales.

Good grass . . .

Mountainous land, or land covered with dense undergrowth,

80.20 chs.

July 6, 1912.

July 8, 1912.: At 7 h 05 m a.m., l.m.t., I set off  $40^{\circ}50'N.$ ,  
 on the lat.arc;  $22^{\circ}31'W.$ , on the decl.arc; and determine a  
 meridian with the solar, at the cor. of secs. 8, 9, 16, and 17.

Thence I run

 $N.0^{\circ}05'W.$ , bet. secs. 8 and 9.Over mountainous land; through scattering timber and  
 dense undergrowth.

Desc. abruptly . . .

21.50 Bottom of hollow, 500 ft. below sec.cor., course N.  $80^{\circ}E.$

Sub.T.1 N., R.8 W.-Continued.

Chains

Asc.

25.00 Top of spur, 40 ft. above hollow, bears E. and W.

Desc.

30.00 Bottom of hollow, 50 ft. below spur, course S.80°E.

Asc.

39.00 Wash, 50 lks. wide, 10 ft. deep, course E.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground, on rock, and surrounded by mound of stone, for 1 sec.cor. with brass cap mkd.

S 8	S 9
1912.	

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

54.50 Top of ridge, 400 ft. above hollow, bears E and W.

Desc.

79.80 Bottom of hollow, 800 ft. below ridge, course S.70°E.

Asc.

80.00 Set and iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 4, 5, 8, and 9, mkd. on brass cap

T 1 N R 8 W.	
S 5   S 4	
S 8   S 9	
1912.	

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous.

Soil, clay mixed with limestone rock and gravel; 2nd rate.

Subsoil, rock and gravel.

Timber, cedar.

Undergrowth, sage brush, mahogany and rabbit brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

80.00 chs.

N.89°52'E., on a random line bet. secs. 4 and 9.

40.00 Set temp. 1 sec.cor.

30.16 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 3, 4, 9, and 10.

Thence I run

## Sub.T.1 N.R.8 W. Continued.

Chains	S.89°54'W., on a true line bet. secns.4 and 9. Over gently rolling valley; through dense undergrowth.
2.05	County road, bears N. and S.
24.00	Leave valley, bears NW and SE. Asc.
40.08	Set an iron post, 3 ft. long, 1 in. in dia., 25 in. in the ground, for 1 sec.cor.mkd.on brass cap  $\begin{array}{r} \frac{S}{S} \\ \frac{4}{9} \\ \hline \end{array}$ 1912. Dig pits, 18x18x12 ins., E. and W. of post, 5ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, E. of cor.
41.00	Top of spur, 50 ft. above valley, projects N. Desc.
50.00	Broad hollow, 50 ft. below ridge, course NE. Asc.
61.00	Rocky spur, 50 ft. above hollow, projects S. Desc. Enter timber, bears NE and SW.
80.16	The cor.of secs.4,5,8, and 9. Land rolling and mountainous. Soil, clay loam and sandy 2nd rate. Timber, scattering cedars. Undergrowth, greasewood and shadscale. Good grass.  July 8, 1912: At this cor. I set off 22' 28", on the decl. arc and at 0 h 5 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40°51'N., which is the proper lat. nearly.
40.00	N.0°03'W., on a random line bet. secns.4 and 5. Set temp. at sec.cor.
84.90	Intersect N.bdy. of Tp. 35 1ks. West of the cor.of secns.4, 5, 32 and 33, heretofore described. Thence I run S.0°12'W., on a true line bet. secns.4 and 5.

## Sub.T.1 U.R.8 W.-Continued.

Chains over mountainous land; through dense undergrowth.

Asc. abruptly over ledges and rocks.

2.40 Top of ridge, 100 ft. above cor., bears E. and W.

Desc.

19.60 Bottom of hollow, 50 ft. below ridge, course S.80°E.

Asc.

52.60 Top of ridge, 150 ft. above hollow, bears E. and W.

Desc.

44.90 Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of stone, for sec.cor., with brass cap md.

S 5	S 4
1912.	

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

46.50 Canon, 300 ft. below ridge, course S.80°E.

Asc.

63.60 Top of ridge, 200 ft. above canon, bears E. and W.

Desc.

84.90 The cor. of secs. 4, 5, 8, and 9.

Land, mountainous.

Soil, clay mixed with limestone rock; about 16 ins. deep  
3rd rate. Subsoil, rock.

Timber, cedar.

Undergrowth, sage, rabbit, and mahogany brush.

Good grass for grazing.

Mountainous land; or land covered with dense undergrowth,

84.90 chs.

July 8, 1912.

*John R Stewart*  
U.S. Surveyor.

July 3, 1912: At 7 h 4 m a.m., l.m.t., I set off  $40^{\circ}46'N.$ ,  
on the lat.arc;  $23^{\circ}00'W.$ , on the decl.arc; and determine a  
meridian with the solar, at the cor.of secs.31 and 32  
on S.bdy.of Tp., heretofore described.

## Sub.T.1 N., R.8 W.-Continued.

Chains Thence I run

N.0°04'W., bet. secs. 31 and 32.

Over level valley; through dense undergrowth.

.35 County road, bears N.80°W. and S.80°E.

15.00 Leave valley, bears NW and SE.

Asc. over rolling foot hills.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1 sec.cor. with brass cap mrd.

S 31	S 32
1912.	

And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 29, 30, 31, and 32, mrd. on brass cap

T 1 N	R 8 W
S 30	S 29
S 31	S 32
1912	

And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Land, valley and hills.

Soil, clay loam sand loose rock.

No timber.

Undergrowth, shadscales and greasewood.

No grass.

Mountainous land, or land covered with dense undergrowth,

80.00 chs.

N.89°54'E., on a random line bet. secs. 29 and 32.

40.00 Set temp. 1 sec.cor.

80.08 Intersect N. and S. line at the cor. of secs. 29, 29, 32, and 33.

Thence I run

8.75 S.89°54'W., on a true line bet. secs. 29 and 32.

Over level land; through dense undergrowth.

10.00 Wagon road, bears NE and SW.

14.75 Wash, 150 lbs. wide, 2 ft. deep, course SE.

40.04 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground

Sub.T.1 N., R.8. W.-Continued.

Chains for 1 sec.cor. with brass cap mkd.

S 29  
S 30 ✓  
1912

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.Leave valley, bears N. and S. Asc.

75.00 Top of ridge, 150 ft. above valley, bears NW and SE.

Dose.

80.08 The cor.of secs.29,30,31, and 32.

East 40.00 chs.level valley with clay loam soil about 2 ft. deep; 2nd rate, and dense shadscales and greasewood undergrowth.

West 40.00 chs.land is mountainous with gradual slopes and clay loam soil mixed with lava rock about 3rd rate. Shadscales and greasewood undergrowth and no timber.

A very little grass.

Mountainous land, or land covered with dense undergrowth,

80.08 chs.

July 3, 1912: At this cor. I set off  $22^{\circ}58'N.$ , on the decl. arc; and at 6 h 4 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}47'N.$ , which is the proper lat. nearly.

S.  $39^{\circ}54'N.$ , on a random line bet. secs.30 and 31.

40.00 Set temp. of sec.cor.

80.04 Intersect W.bdy. of Tp., 7 Ms.S. of the cor.of secs.25,30, 31, and 36, heretofore described.

Thence 1 run

N.  $39^{\circ}57'N.$ , on a true line bet.secs.30 and 31.

Over rolling valley land; through dense undergrowth.

40.04 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1 sec.cor..mkd.on brass cap

S 30  
S 31 ✓  
1912.

Dig pits, 18x18x12 ins., N. and W. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Sub.T.1 N., R.8 W.-Continued.

Chains

51.50 Road, bears N.20°W. and S.20°E.

59.00 Leave valley and begin asc. of mountain, bears NE and SW.

✓ 80.04 The cor. of secs. 29, 30, 31, and 32.  
Land mountainous and level.  
Soil, clay loam; 2nd rate, about 2 ft. deep.  
No timber.  
Undergrowth, shadscales, and greasewood.  
Good grass for grazing.  
Mountainous land, or land covered with dense undergrowth,  
80.04 chs.

N.0°04'W., bet. secs. 29 and 30.  
Over rolling mountainous land; through dense undergrowth.  
Asc. gradually.

40.00 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the  
ground, for 1 sec. cor., with brass cap mka.

S 30	S 29
1912.	

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

68.00 Top of spur, 150 ft. above sec. cor., projects West.  
Desc.

72.90 Bottom of hollow, 50 ft. below spur, course W.

Asc.

80.00 Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the  
ground, for cor. of secs. 19, 20, 29, and 30, with brass cap mka.

T 1 N	R 8 W
S 19	S 20
S 30	S 29
1912.	

And raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.  
Land, rolling mountainous.  
Soil, clay loam mixed with rock; 2nd and 3rd rate.  
No timber.  
Undergrowth, shadscales and greasewood.  
Good grass for grazing.

Sub.T.1 N., R.8 W.-Continued.

Chains	Mountainous land, or land covered with dense undergrowth, 80.00 chs.	July 3, 1912.
	July 5, 1912: At 7 h 4 m a.m., l.m.t., I set off $40^{\circ}48'N.$ , on the lat.arc; $22^{\circ}49'N.$ , on the decl.arc; and determine a meridian with the solar, at the cor.of secs.19,20,29, and 30.	
	Thence I run $N.39^{\circ}54'E.$ , on a random line bet.secs.20 and 29.	
40.00	Set temp., sec.cor.	
80.20	Intersect N. and S.line, 5 lks.N. of the cor.of secs.20,21,28 and 29.  Thence I run $S.39^{\circ}56'W.$ , on a true line bet.secs.20 and 29.  Over level valley; through dense undergrowth.	
5.00	Leave valley, bears NW and SE.  Asc.	
21.50	Top of ridge, 150 ft.above cor., bears N. and S.  Desc.	
37.00	Bottom of hollow, 100 ft.below ridge, course NE.  Asc.	
40.10	Set an iron post, 3 ft.long, 1 in.in dia., 20 ins.in the ground, on rock, and surrounded by mound of stone, for $\frac{1}{2}$ sec.cor., with brass cap mfd.	
	$\frac{1}{2}$ <u>S      20</u> <u>S      29</u> 1912.	
	And raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, N.of cor.	
66.80	Top of ridge, 200 ft.above hollow, bears N. and S.  Desc.	
80.20	The cor.of secs.19,20,29, and 30.  Land, mountainous and level.  Soil, on valley rich clay loam; 2 ft.deep, 2nd rate.on mountain soil is clay mixed with volcanic rock.  No timber.	

Sub.T.1 N., R.8 W.-Continued.

- Chains Undergrowth, shadscales and greasewood.
- Good grass.
- Mountainous land, or land covered with dense undergrowth,  
✓  
80.20 chs.
- S.89°57'W., on a random line bet. secs. 19 and 30.
- 40.00 Set temp.  $\frac{1}{2}$  sec. cor.
- 79.98 Intersect W.bdy. of Tp., 5 lks. N.of the cor. of secs. 19, 24,  
25; and 30, heretofore described.  
Thence I run  
N.89°55'E., on a true line bet. secs. 19 and 30.  
Over rolling valley land; through dense undergrowth.
- 8.00 Leave valley, bears NE and SW.  
Asc.
- 16.20 Rocky spur, 150 ft. above valley, bears NE and SW.  
Desc.
- 25.00 Bottom of draw, 175 ft. below spur, course SW.  
Asc.
- 39.98 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the  
ground, for  $\frac{1}{2}$  sec.cor., with brass cap mkd.
- $$\begin{array}{r} \frac{1}{2} \\ S. 19 \\ \hline S. 30 \\ 1912. \end{array}$$
- And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N.of cor.
- 79.98 The cor. of secs. 19, 20, 29, and 30.  
Land, mountainous and level.  
Soil, clay mixed with rock; 2nd and 3rd rate.  
No timber.  
Undergrowth, shadscales and greasewood.  
Good grass.  
Mountainous land, or land covered with dense undergrowth,  
✓  
79.98 chs.
- July 5, 1912: At this cor. I set off 22°47'W., on the decl.  
arc; and at 0 h 4 m p.m.l.m.t., I observe the sun on the  
meridian the resulting lat. is 40°43'N., which is the

## Sub.T.1 N., R.8 W.-Continued.

Chains	proper lat.nearly.
	N.0°04'W., bet.secs.19 and 20.
	Over mountainous land; through dense undergrowth.
	Desc.
2.00	Foot of descent, 35 ft. below cor., thence across wide hollow., bears NE and SW. course SW.
20.00	Leave bottom of hollow, bears NE and SW. Asc.abruptly over ledges and boulders.
40.00	Point 200 ft.above hollow. Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{2}$ sec.cor.with brass cap mkd.
	T 1 N   R 8 W S 19   S 20 1912.
	And raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft).high,W.of cor.
43.50	Top of ridge, 260 ft.above hollow, bears E.and W.
	Desc.
63.50	Bottom of hollow, 125 ft.below ridge, course SE. Asc.along head of hollow.
80.00	Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.17,18,19, and 20,with brass cap mkd.
	T 1 N   R 8 W S 18   S 17 S 19   S 20 1912.
	And raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor.
	Land,mountainous .
	Soil,clay loam mixed with loose rock; 2nd and 3rd rate.
	Subsoil,rock.
	No timber.
	Undergrowth, shadscales and greasewood.
	Good grass for grazing.
	Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	July 5,1912.

Sub.T.1 N., R.8 W.-Continued.

## Chains

- July 6, 1912: At 7 h 4 m a.m., l.m.t., I set off 40°49'N., on th  
the lat.arc; 22°44'W., on the decl.arc; and determine a  
meridian with the solar, at the cor.of secs.17,18,19, and 20.  
Thence I run  
N.89°56'E., on a random line bet.secs.17 and 20.  
40.00 Set temp. $\frac{1}{2}$  sec.cor.  
80.24 Intersect N.and S.line, at the cor.of secs.16,17,20, and 21.  
Thence I run  
S.89°56'W., on a true line bet.secs.17 and 20.  
Over mountainous land; through dense undergrowth and a  
few scattering cedars..  
Desc.  
21.50 Road, bears NW and SE.  
31.00 Bottom of hollow, 100 ft. below cor., course SE.  
Asc.  
40.12 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the  
ground, for  $\frac{1}{2}$  sec.cor.with brass cap.mkd.  

$$\begin{array}{r} \frac{1}{2} \\ S \quad 17 \\ \hline S \quad 20 \\ 1912. \end{array}$$
  
And raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.  
68.50 Top of ridge, 600 ft.above hollow, bears N.and S.  
Desc.  
80.24 The cor.of secs.17,18,19, and 20.  
Land, mountainous.  
Soil, clay loam mixed with rock; 2nd rate.  
Timber, scattering cedar.  
Undergrowth, shadscales.  
Good grass ..  
Mountainous land, or land covered with dense undergrowth,  
30.24 chs.  

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S.89°55'W., on a random line bet.secs.18 and 19.  
40.00 Set temp. $\frac{1}{2}$  sec.cor.  
79.82 Intersect W.bdy.of Tp., 3 lks.N.of the cor.of secs.15,18,19,  
and 24, heretofore described.

Sub.T.1 N.R.8 W.-Continued.

## Chains

Thence I run

N. $89^{\circ}54' E.$ , on a true line bet. secs. 18 and 19.

Over mountainous land; through dense undergrowth.

Desc.

6.50 Bottom of hollow, 200 ft. below cor., course S.

Asc. abruptly.

28.00 Top of ridge, 150 ft. above hollow, bears N. and S.

Desc.

39.82 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor. with brass cap mkd.

$\begin{matrix} S & 18 \\ S & 19 \end{matrix}$   
 1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

50.00 Bottom of hollow, 300 ft. below ridge, course SE.

Asc.

79.82 The cor. of secs. 17, 18, 19, and 20.

Land, mountainous.

Soil, clay mixed with rock; 3rd rate.

No timber.

Undergrowth, shadscales and greenwood.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,  
79.82 chs.

July 6, 1912: At this cor. I set off  $22^{\circ}41' N.$ , on the decl. arc; and at 0 h 4 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}49' N.$ , which is the proper lat. nearly.

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N. $0^{\circ}04' W.$ , bet. secs. 17 and 18.

Over mountainous land; through dense undergrowth.

Asc.

1100 Top of spur, 200 ft. above cor., bears E. and W.

Desc.

35.80 Bottom of hollow, 350 ft. below spur, course SE.

Asc.

## Sub.T.1 N., R.8 W.-Continued.

Chains

- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor., with brass cap mkd.

$\frac{1}{2}$	S 18
S 17	
1912.	

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  $\frac{1}{2}$  of cor.

- 41.90 Top of spur, 200 ft. above hollow, projects SE.

Desc.

- 51.00 Road in Bottom of hollow, 400 ft. below ridge, course SE.

Asc.

- 66.50 Enter scattering cedar timber, bears NW and SE.

- 80.00 Point 560 ft. above hollow,

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor.of secs. 7, 8, 17, and 18, with brass cap mkd.

T 1 N	R 8 W
S 7	S 8
S 18	S 17
1912.	

From which

A cedar, 10 ins. dia., bears S.  $87^{\circ}15'W.$ , 100 lks.

dist..mkd.T 1 N R 8 W S 18 E T..

A cedar, 14 ins. dia., bears N.  $15^{\circ}06'W.$ , 51 lks.

dist..mkd.T 1 N R 8 W S 7 E T..

No other trees within limits; raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  $\frac{1}{2}$  of cor.

Land, mountainous.

Soil, loam mixed with rock; 3rd rate.

Timber, scattering cedar.

Undergrowth, greasewood and shadscales.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,  
80.00 chs.

July 6, 1912.

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July 8, 1912: At 7 h 5 m a.m., I.m.t., I set off  $40^{\circ}50'N.$ , on the lat.arc;  $22^{\circ}31'N.$ , on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 7, 8, 17, and 18.

Sub.T.1 N., R.8 W.-Continued.

- Chains Thence I run  
 ✓ N. $89^{\circ}56' E.$ , on a random line bet. secs. 8 and 17.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.30 Intersect N. and S. line 13 lks. S. of the cor. of secs. 8, 9, 16, and 17.
- Thence I run  
 ✓ S. $89^{\circ}50' W.$ , on a true line bet. secs. 8 and 17.
- Over mountainous land; through dense undergrowth.
- Asc.
- 6.50 Top of ridge, 100 ft. above cor., bears N. and S.  
 Desc.
- 19.50 Bottom of hollow, 200 ft. below ridge, course N.  
 Asc.
- 25.00 Enter scattering timber, bears N. and S.
- 51.50 Top of rocky spur, 200 ft. above hollow, bears N. and S.  
 Desc. abruptly.
- 33.00 Bottom of canon, 150 ft. below spur, course N.  
 Asc. abruptly over ledges.
- 34.60 Top of abrupt ascent and ledges, bears N. and S. Asc. gradually.
- 40.15 Set an iron post,  $\frac{3}{4}$  ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{4}$  sec.cor. with brass cap mkd.
- |               |     |
|---------------|-----|
| $\frac{1}{4}$ | ✓   |
| S             | 8   |
| S             | 17✓ |
| 1912.         |     |
- And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 47.10 Bottom of same canon, 150 ft. deep, course SE.  
 Asc.
- 67.50 Top of ridge, 160 ft. above canon, bears NW and SE.  
 Desc. over ledges.
- 80.30 The cor. of secs. 7, 8, 17, and 18.  
 Land, mountainous, very rough.  
 Soil, clay mixed with rock and boulders; 3rd rate.  
 Subsoil, rock.  
 Timber, scattering cedar.  
 Undergrowth, sage, mahogany, and shadscales.  
 Good grass.  
 Mountainous land, or land covered with dense undergrowth,

Sub.T, l N., R.8 W.-Continued.

- |        |                 |
|--------|-----------------|
| Chains | ✓<br>80.30 chs. |
|--------|-----------------|
- S.89°54'W., on a random line bet.secs.7 and 18.
- 40.00 Set temp. of sec.cor.
- 79.70 Intersect W.bdy.of Tp., 2 1/2 m.w. of the cor.of secs.7, 12, 13, and 18, heretofore described.
- Thence I run
- N.89°53'E., on a true line bet.secs.7 and 18.
- Over mountainous land; through dense undergrowth.
- Desc.
- 5.50 Bottom of hollow, 30 ft. below sec.cor., course SW.
- Asc.
- 9.70 Top of spur, 50 ft. above hollow, projects NW.
- Desc.
- 20.50 Bottom of hollow, 100 ft. below spur, course NE.
- Asc.
- 39.70 Point 50 ft. above hollow.
- Set an iron post, 3 ft. long, 1 ins. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor. with brass cap mkd.
- $\begin{array}{r} S \quad 7 \\ - \quad - \\ S \quad 18 \\ - \quad - \\ 1912 \end{array}$
- 3 ft. dist.
- Dig pits, 18x18x12 ins. E. and W. of post; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 46.00 Ridge, bears N.  $20^{\circ}$  W. and S.  $20^{\circ}$  E. Desc.
- 58.20 Road, bears NW and SE.
- 64.00 Enter scattering timber, bears N. and S.
- 79.70 The cor.of secs.7, 8, 17, and 18.
- Land, mountainous.
- Test 65.00 chs. sandy and clay loam; 2nd rate. E. 14.70 chs. is rocky; 3rd rate.
- Timber, scattering cedar.
- Undergrowth, shadscale and greasewood.
- Good grass for grazing.
- Mountainous land, or land covered with dense undergrowth, 79.70 chs.

Sub.T.1 N., R.8 W.-Continued.

Chains

July 8, 1912: At this cor. I set off  $82^{\circ}23'W.$ , on the decl. arc; and at 0 h 5 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}50'N.$ , which is the proper lat. nearly.

N. $0^{\circ}04'W.$ , bet. secs. 7 and 8.

Over mountainous land; through dense undergrowth and scattering timber.

Asc. abruptly over ledges and boulders.

34.00

Top of spur, 700 ft. above cor., bears E. and W.

Desc. over numerous small spurs and hollows along southwest slope of ridge.

40.00

Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground, on rock, and surrounded by mound of stone, for 1 sec. cor., with brass cap mkd.

$\frac{1}{2}$	
S 7	S 8
1912.	

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  $\frac{1}{4}$  of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground, on rock, and surrounded by mound of stone, for cor. of secs. 5, 6, 7, and 8, with brass cap mkd.

T 1 N	R 8 W
S 6	S 5
S 7	S 8

1912 From which:

A cedar, 24 ins. dia., bears S. $52^{\circ}E.$ , 34 lks. dist. mkd. T 1 N R 8 W S 8 B T.

A cedar, 6 ins. dia., bears S. $44^{\circ}W.$ , 61 lks. dist. mkd. T 1 N R 8 W S 7 B T.

No other trees within limits; raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  $\frac{1}{4}$  of cor.

Land, mountainous.

Soil, clay loam and rocky; 3rd rate.

Timber, cedars.

Undergrowth, greasewood and shadscales.

Good grass for grazing.

## Sub.T.1 N., R.8 W.-Continued.

Chains Mountainous land, or land covered with dense undergrowth,  
80.00 chs.

July 8, 1912.

July 9, 1912: At 7 h 5 m a.m., l.m.t., I set off  $40^{\circ}50'N.$ , on the lat.arc;  $22^{\circ}24'W.$ , on the decl.arc; and determined a meridian with the solar, at the cor.of secs.5, 6, 7, and 8.

Thence I run

$N.89^{\circ}50'E.$ , on a random line bet.secs.5 and 8.

40.00 Set temp. $\frac{1}{2}$  sec.cor.

80.52 Intersect N.and S.line, 5 lks.N.of the cor.of secs.4, 5, 8, and 9.

Thence I run

$S.89^{\circ}52'W.$ , on a true line bet.secs.5 and 8.

Over mountainous land; through scattering timber and dense undergrowth.

Desc.

1.00 Bottom of canon, 10 ft. below cor., course  $S.70^{\circ}E.$

2.50 Granite ledge 75 ft. high, bears  $N.70^{\circ}W.$  and  $S.70^{\circ}E.$

Asc.abruptly.

36.80 Top of ridge, 560 ft. above canon, bears NW and SE.

Desc.

40.16 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{2}$  sec.cor.with brass cap mkd.

$\begin{array}{r} \frac{1}{2} \\ S \quad 5 \\ \hline S \quad 8 \end{array}$

1912. From which

A cedar, 5 ins.dia., bears  $N.22^{\circ}10'W.$ , 22 lks.

dist..mkd. $\frac{1}{2}$  S 5 B T.

A cedar, 5 ins.dia., bears  $S.65^{\circ}W.$ , 30 lks.

dist..mkd. $\frac{1}{2}$  S 8 B T.

42.25 Rocky ravine 125 ft.deep, course N.

Asc.

49.70 Top of ridge, 100 ft.above ravine, bears N.and S.

Desc.

65.50 Bottom of hollow, 250 ft.deep, course NE.

Sub.T.1 N., R.8 W.-Continued:

- Chains Asc. over ledges and boulders.
- 80.32 The cor. of secs. 5, 6, 7, and 8.  
Land mountainous, rough.  
Soil, loam and rocky; 3rd rate.  
Timber, scattering cedars.  
Undergrowth, shadscales and greasewood.  
Good grass.  
Mountainous land, or land covered with dense undergrowth,  
80.52 chs.
- S. 89° 53' W., on a random line bet. secs. 6 and 7.
- 40.00 Set temp.  $\frac{1}{2}$  sec. cor.
- 79.57 Intersect W. bdy. of Tp., 5 lks. N. of the cor. of secs. 1, 6, 7, and 12, heretofore described.  
Thence I run  
N. 89° 51' E., on a true line bet. secs. 6 and 7.  
Over mountainous land; through dense undergrowth and scattering timber.  
Asc. abruptly over ledges.
- 5.00 Top of ledge, 100 ft. high, bears N. 30° W. and S. 30° E.  
Asc. more gradually over ledges and boulders along south slope of ridge.
- 39.57 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor.; with brass cap mkd.
- |   |               |   |
|---|---------------|---|
| S | $\frac{1}{2}$ | S |
| S | 6'            | S |
| S | $\frac{7}{4}$ |   |
- 1912.
- And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 44.50 Top of spur, 50 ft. above  $\frac{1}{2}$  sec. cor., bears N. and S.  
Desc.
- 67.85 Old road, in bottom of swale, 150 ft. below spur, course SW.  
Asc.
- 69.75 Top of ridge, 75 ft. above swale, bears N. and S.  
Desc.

## Sub.T.1 N., R.8 W.-Continued.

Chains

79.57 The cor.of secs.5,6,7, and 8.

Land, mountainous.

Soil, clay loam and loose rock; 3rd rate.

Timber, cedar.

Undergrowth, shadscales and greasewood.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,  
79.57 chs.

July 9, 1912: At this cor. I set off 22°21' N., on the decl. arc; and at 0 h 5 m p.m., l.m.t., L.m.t., I observe the sun on the meridian the resulting lat. is 40°50' N., which is the proper lat. nearly.

N.0°4' W., on a random line bet. secs. 5 and 6.

40.00 Set temp. of sec.cor.

85.10 Intersect N.bdy.of Tp., 37 lks.W. of cor.of secs.5,6,31, and 32., heretofore described.

Thence I run

S.0°12' W., on a true line bet. secs. 5 and 6.

Over mountainous land; through dense undergrowth.

Asc.

6.00 Top of ridge, 25 ft. above cor., bears E. and N.

Desc.

45.10 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor. with brass cap mkd.

3 6	3 5
1912.	

And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

57.00 Bottom of hollow, 100 ft. below ridge, course N.

Asc. through scattering timber.

74.00 S. edge of knoll on end of rocky ridge, bears E. and W.  
Desc. along east edge.

84.40 Rocky hollow, 180 ft. below knoll, course N.

Asc.

Sub.T.1 N.R.8 W.-Continued.

## Chains

- 85.10 The cor. of secs. 5, 6, 7, and 8.  
 Land, rolling mountainous.  
 Soil, clay and sandy loam and rocky; 3rd and 4th rate.  
 Timber, cedar.  
 Undergrowth, shadscales and greasewood.  
 Good grass for grazing.  
 Mountainous land, or land covered with dense undergrowth,  
 85.10 chs.

July 9, 1912.

*Claude L. Heist*

U.S. Transitman.

## GENERAL DESCRIPTION.

The eastern part of this township is level valley land in the north end of Skull Valley; it slopes very gradually to the east and is only a few feet higher than the present level of the Great Salt Lake. Patches of the land are so salty that no vegetation will grow on them; the remainder produces only shadscales and greasewood which indicate considerable salt and alkali. The soil is about 2 ft. deep and underlaid by a stiff blue clay. However there is considerable land up near the foot hills which will likely be suitable for dry farming, in fact a little farther north in T.2 N., R.8 W., similar land is being cultivated. The western part of the township occupies the extreme southern end of the Lake Side Range of mountains and in this township Skull Valley is both east and west of the range. At the south side of the township the mountain is low and rolling but gets higher and steeper toward the north end of the township. The only water in the township is at Delle in sec. 31; and is piped there from about

Sub.T.1 N.R.8 W.-Continued.

Chains

20 miles to the southeast.

Delle is a railway station on the Western Pacific R.R.  
and only the agent and section workers live there.

There are no settlers in the township, except the railway  
employees.

There is some cedar timber in the northwest part of the  
township.

We found no trace of mineral in this township.

*John R Stewart*  
U.S. Surveyor.

*Claude L. Hest.*

U.S. Transitman.

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**Volume**

**#**

**R0400**

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## CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,  
....., U. S. Surveyor, during the periods and in the capacities  
stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book "L" T.2 S., R.6 W.

of the ..... Meridian, in the State of ..... which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

FINAL OATH OF UNITED STATES SURVEYOR.

I, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for  
beginning date of the day of , 191 , I have well, faithfully, and truly,  
in my own proper person, and in strict conformity with said instructions, the Manual of Surveying  
Instructions, and the laws of the United States, surveyed all these parts or portions of .

For final oaths of U.S. Surveyor and Transitman see book "L.W.T. & S.  
U.S.T."

..... of the  
Salt Lake Base and Meridian, in the State of ..... which are represented in  
the foregoing field notes as having been executed by me, and under my direction; and I do further  
solemnly swear that all the corners of said survey have been established and perpetuated in strict accord-  
ance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor  
General for ..... and in the specific manner described in the field notes, and that  
the foregoing are the original field notes of such survey.

U. S. Surveyor,

Subscribed by said ..... and sworn to before me |  
this ..... day of ..... , 191 |

APPROVAL.

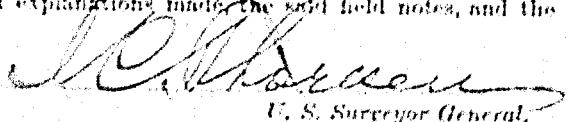
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, December 5, 1914.

The foregoing field notes of the survey of the Subdivision of Township No. 1 North  
Range No. 8 East of the Salt Lake Base and Meridian, Utah

executed by John D. Stewart and Claude L. Heist, under special instructions dated May 25, 1912, having been  
carefully examined, and the necessary corrections and explanations made the said field notes, and the

survey, so described, are hereby approved.

  
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in  
..... has been correctly copied from the original notes on file in this office.

U. S. Surveyor General.

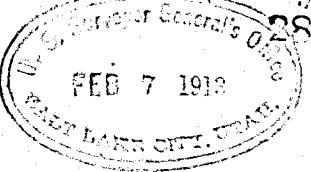
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FEB 7 1913



E.

# FIELD NOTES

OF THE SURVEY OF THE

SUSPENSION

and

MEANDERS

and

REMANAGEMENT WEST BOUNDARY

of

Township No. 2 North Range No. 8 West

Of the Salt Lake Base and Meridian,

In the State of Utah

## EXECUTED BY

John E. Stewart

Claude L. Heist

In the capacity of U. S. Surveyor, under instructions dated May 28, 1912, and Transitman issued by the United States Surveyor General to govern surveys included in Group No. 17, which were approved by the Commissioner of the General Land Office, June 7, 1912, pursuant to authority contained in the Act of Congress dated June 7, 1912, 1912.

Survey commenced June 17, 1912, 1912

Survey completed June 27, 1912

6-151

Sus. 51-63-55  
Loc. 51-18-15  
Meanders 3-09-15  
Rifined or Sec. - 3-00-53  
Grade 27

BOOK A-400

## INDEX DIAGRAM.

Township 2 North, Range 3 West.

51	6	40	5	53	4	25	3	15	2	1
	48		47		52		22		14	
52	7	47	8	31	9	21	10	13	11	12
	46		45		51		21		11	12
52	18	44	17	30	16	20	15	10	14	13
	42		41		29		19		9	4
19	40	20	28	21	13	22	9	23	4	24
59		38		27		18		8		3
30	37	29	26	28	17	27	7	26	2	25
56		35		26		16		6		2
31	34	32	24	33	15	34	6	35	1	36

Meanders Page 53 to 57

CHAINS

Survey commenced June 17, 1912, and executed with a W. and L.E. Gurley solar compass. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on June 5, 1912.

NOTE: For complete test of instrument see notes of Retracement of Salt Lake Base Line through Range 8 W. At the cor. of secs. 1, 2, 35 and 36, on S.bdy. of Tp. here-tofore described latitude  $40^{\circ}51'17''$ N., longitude  $112^{\circ}42'55''$ W.

At 7h 1ma.m., l.m.t., I set off  $40^{\circ}51'17''$ N., on the lat. arc.  $23^{\circ}25'$ n. on the decl. arc. and determine a meridian with the solar.

Thence I run

N.  $0^{\circ}01'$ W. bet. secs. 35 and 36.

Over level land, through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for  $\frac{1}{4}$  sec. cor. with brass cap mkd.

$\frac{1}{4}$	
S 35	S 36

1912

Dig pits  $18 \times 18 \times 12$  ins. N. and S. of post, 3 ft. dist. and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36, with brass cap mkd.

T 2 N	R 8 W
S 26	S 25
S 35	S 36

1912

Dig pits  $18 \times 18 \times 12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.

CHAINS	<p>Land, level.</p> <p>Scil, sandy and clay loam about 12 ins. deep, 2nd rate.</p> <p>Subsoil, hard marl. No timber.</p> <p>Undergrowth, greasewood and shadscales.</p> <p>A very little grass.</p> <p>Land covered with dense undergrowth 80.00 chs.</p>
40.00	<p>East on a random line bet. secs. 25 and 36.</p> <p>Set temp. <math>\frac{1}{4}</math> sec. cor.</p>
79.98	<p>Intersect N. and S. line at the cor. of secs. 25, 30, 31 and 36, heretofore described. Thence I run</p> <p>West on a true line bet. secs. 25 and 36.</p> <p>Over level land, through dense undergrowth.</p>
39.99	<p>Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor. with brass cap mkd.</p>
	$\begin{array}{r} \frac{1}{4} \\ \hline S\ 25 \\ S\ 36 \end{array}$ <p>1912</p>
	<p>Dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist. and raise a mound of earth <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high N. of cor.</p>
51.25	Road, bears N. $60^{\circ}$ E. and S. $60^{\circ}$ W.
79.98	<p>The cor. of secs. 25, 26, 35 and 36.</p> <p>Land, level.</p> <p>Soil, clay loam about 18. ins. deep.</p> <p>Subsoil, hard marl. No timber.</p> <p>Undergrowth, shadscales and greasewood.</p> <p>A very little grass.</p> <p>Land covered with dense undergrowth, 79.98 chs.</p>
	<p>N. <math>0^{\circ}01'W.</math> bet. secs. 25 and 26.</p> <p>Over level valley, through dense undergrowth.</p>
28.75	Road, bears N. $60^{\circ}$ E. and S. $60^{\circ}$ W.
40.00	<p>Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for <math>\frac{1}{4}</math> sec. cor. with brass cap mkd.</p>
	$\begin{array}{r} \frac{1}{4} \\ \hline S\ 26\   S\ 25 \end{array}$ <p>1912</p>

Sub.T.2 N., R.8 W.-Continued.-

Chains

Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 23, 24, 25, and 26, with brass cap mkd.

T 2 N	R 8 W
S 25	S 24
S 26	S 25

1912

Dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay loam; 18 ins. deep, 2nd rate.

Subsoil, marl

No timber. Undergrowth, greasewood and shadscales.

A very little grass.

Land covered with dense undergrowth, 80.00 chs.

June 17, 1912: At this cor. I set off 23)24' W., on the decl. arc; and at 0 h 11 m p.m., l.m.t., I observeth the sun on the meridian, the resulting lat. is  $40^{\circ}55'W.$ , which is the proper lat. nearly.

East, on a true line bet. secs. 24 and 25.

Over level land; through dense undergrowth.

8.90 Leave undergrowth, bears N. and S.

23.71 East shore of Salt Lake, 5.00 chs. from waters edge, bears N. and S.

Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for meander cor. of secs. 24 and 25, with brass cap mkd.

T 2 N	R 8 W
S 24	
S 25 MC	

1912.

Dig a pit, 36x36x12 ins., W. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay loam; 1 ft. deep; 2nd rate.

Subsoil, marl and hard pan.

No timber.

Undergrowth, shadscales and greasewood.

Sub. T. 2 N. 8 R. 6 W.-Continued.

Chains

No grass..

Land covered with dense undergrowth, 8.90 chs.

N.0°01'W., bet. secs. 23 and 24.

Over level land; through dense undergrowth.

40.00 Set an iron-post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

S 25	$\frac{1}{2}$	S 24
------	---------------	------

1912.

Dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

30.00 Set an iron-post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 14, 23, and 24, with brass cap mkd.

T 2 N	R 8 W
S 14	S 13
S 23	S 24

1912.

Dig pits, 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay loam about 1 ft. deep.

Subsoil, marl.

No timber.

Undergrowth, shadscales and greasewood.

Good grass for grazing.

Land covered with dense undergrowth, 80.00 chs.

East, on a true line bet. secs. 13 and 24.

Over level land; through dense undergrowth.

6.00 Leave undergrowth, bears NW and SE.

15.25 West shore of Great Salt Lake, bears N.30°W. and S.30°E. about 3.50 chs. from the water's edge.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for meander cor. of secs. 13 and 24, with brass cap mkd.

Sub.T.2 N., R.8 W.-Continued.

Chains

T 2 N R 8 W  
S 13<sup>v</sup>  
S 24<sup>v</sup> N C

1912.

Dig a pit, 36x36 x12 ins., West of post, 8 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor. Land, level.

Soil, clay loam; 2nd rate. 1 ft. deep.

Subsoil, marl.

No timber.

Undergrowth, shadscales and greasewood.

Good grass.

Land covered with dense undergrowth, 6.00 chs.

N.0°01'W., bet. secs. 13 and 14.

Over level land; through dense undergrowth.

9.00 Leave undergrowth, bears NW and SE.

10.25 West shore of Great Salt Lake, bears NW and SW.

Waters edge 4.00 chs. North.

Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for meander cor. of secs. 13 and 14, with brass cap mtd.

T 2 N R 8 W

M C  
S 24<sup>v</sup> S 13<sup>v</sup>  
1912.

Dig pit, 36x36x12 ins., S. of post, 8 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land, level.

Soil, clay loam and marl; 2nd and 3rd rate.

No timber.

Undergrowth, greasewood and shadscales.

Good grass.

Land covered with dense undergrowth, 18.25 chs.

June 17, 1912.

John D. Stewart  
U.S. Surveyor.

Sub.T.2 N., R.8 W.-Continued.

Chains

June 18, 1912: At 7 h 1 m a.m., I set off  $40^{\circ}51'N.$ , on the lat. arc;  $25^{\circ}26'W.$ , on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 2, 3, 34, and 35, on S.bdy. of Tp., heretofore described.

Thence I run

$N.0^{\circ}02'W.$ , bet. secs. 34 and 35.

Over level land; through dense undergrowth.

40.00 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap md.

T 2 N	R 8 W
S 27'	S 26'
S 34	S 35

1912.

Dig pits, 18x18x12 ins., N. and S. of post, 5 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 26, 27, 34, and 35, with brass cap md.

T 2 N	R 8 W
S 27'	S 26'
S 34	S 35

1912.

Dig pits, 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, rich clay loam; 2 ft. deep.

Subsoil, marl and sand.

No timber.

Undergrowth, greasewood, and shadscales.

Some grass.

Land covered with dense undergrowth, 80.00 chs.

East, on a random line bet. secs. 26 and 35.

40.00 Set temp.  $\frac{1}{2}$  sec. cor.

80.00 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 25, 26, 35 and 36.

Thence I run,

$N.89^{\circ}59'W.$ , on a true line bet. secs. 26 and 35.

Over level land; through dense undergrowth.

Chains

- 40.01 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor. with brass cap mkd.

$$\begin{array}{r} \text{S } 26 \\ \hline \text{S } 35 \\ 1912. \end{array}$$

Dig pits, 18x18x12 ins. E. and W. of post, 5 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.02 The cor. of secs. 26, 27, 34, and 35.

Land, level.

Soil, clay loam; 2 ft. deep, 2nd rate.

Subsoil, sand and marl.

No timber.

Undergrowth, sage brush and greasewood.

A very little grass.

Land covered with dense undergrowth, 80.02 chs.

June 18, 1912: At this cor. I set off  $23^{\circ}26'W.$ , on the decl. arc; and at 0 h 1 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}52'N.$ , which is the proper lat. nearly.

N. $40^{\circ}02'W.$ , bet. secs. 26 and 27

Over level land; through dense undergrowth.

4.50 Road, bears N.  $70^{\circ}E.$  and S.  $70^{\circ}W.$

11.50 Road, bears N.  $60^{\circ}W$  and S.  $60^{\circ}E.$

- 40.00 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor.. mkd. on brass cap

$$\begin{array}{r} \text{S } 27 \\ \hline \text{S } 26 \\ 1912. \end{array}$$

Dig pits, 18x18x12 ins., N. and S. of post, 5 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

30.00 Set an iron post, 5 ft. long, 1 ins. in dia., 24 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, with brass cap mkd.

$$\begin{array}{r} \text{S } 22 \quad \text{R } 8 \text{ W} \\ \hline \text{S } 23 \\ \hline \text{S } 27 \quad \text{S } 26 \\ 1912. \end{array}$$

Sub.T.2 N., R.8 W.-Continued.

Chains	Dig pits, 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, $\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high, N. of cor. Land level. Soil, clay loam; 2 ft. deep.; 2nd rate. Subsoil, sand. No timber. Undergrowth, greasewood and shadscales. A very little grass. Land covered with dense undergrowth, 80.00 chs.
	S. $89^{\circ}59' E.$ , on a random line bet. secs. 25 and 26.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
80.04	Intersect the N. and S. line, at the cor. of secs. 23, 24, 25, and 26. Thence I run N. $89^{\circ}59' W.$ , on a true line bet. secs. 25 and 26. Over level land; through dense undergrowth.
40.02	Set an iron post, $3\frac{1}{2}$ ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor. with brass cap rd.
	$\frac{1}{2}$ S 25 S 26 1912.
80.04	Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. The cor. of secs. 22, 23, 26, and 27. Land, level. Soil, clay loam; 2nd rate. about 2 ft. deep. No timber. Subsoil, hard pan. Undergrowth, shadscales and greasewood. A very little grass. Land covered with dense undergrowth, 80.04 chs.

June 18, 1912.

Chains

June 19, 1912; At 7 h 1 m a.m., l.m.t., I set off  $40^{\circ}55'N.$ , on the lat.arc;  $23^{\circ}27'W.$ , on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 22, 23, 26, and 27. Thence, I run  $N.0^{\circ}02'W.$ , bet.secs. 22 and 23.

Over level land; through dense undergrowth.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{2}$  sec.cor.with brass cap mkd.

S 22	S 23
------	------

1912.

Dig pits, 18x18x12 ins., N.and S.of post, 3 ft.dist; and raise a mound of earth,  $3\frac{1}{2}$  ft.base, 1 $\frac{1}{2}$  ft.high, W.of cor.

80.00 Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs. 14, 15, 22, and 23, with brass cap mkd.

T 2 N., R.8 W.	
S 15	S 14
S 22	S 23

1912.

Dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft.dist.; and raise a mound of earth, 4 ft.base, 2 ft.high, S.of cor.

Land level.

Soil, clay loam; 2nd rate. 2 ft.deep.

Subsoil, hard pan.

No timber.

Undergrowth, shadscales and greasewood.

A very little grass.

Land covered with dense undergrowth, 80.00 chs.

$S.89^{\circ}59'E.$ , on a random line bet.secs. 14 and 23.

40.00 Set temp.  $\frac{1}{2}$  sec.cor.

79.98 Intersect N.and S.line, 2 lks.S.of the cor.of secs. 13, 14, 23, and 24.

Thence I run

West, on a true line bet.secs. 14 and 23.

Over level land; through dense undergrowth.

59.99 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the

## Sub.T.2 N., R.3 W.-Continued.

Chains

ground, for  $\frac{1}{2}$  sec.cor.with brass cap mkd.

S	14
S	23

1912.

Dig pits, 18x18x12 ins. E. and W. of post, 5 ft. dist. and raise a mound of earth,  $5\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

79.98

The cor. of secs. 14, 15, 22, and 23.

Land, level.

Soil, clay loam; 18 ins. deep. 2nd rate.

Subsoil clay mixed with marl.

No timber.

Undergrowth, greasewood and shadscales.

A very little grass.

Land covered with dense undergrowth, 79.93 chs.

N.0°02'W., bet. secs. 14 and 15.

Over level land; through dense undergrowth.

20.75

Road, bears N.30°E. and S.30°W.

40.00

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor.with brass cap mkd.

S	15
	S 14

1912.

Dig pits, 18x 18x12 ins., N. and S. of post, 5 ft. dist.; and raise a mound of earth,  $5\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

71.25

Road, bears NE and SW.

75.00

Road bears N.80°E. and S.80°W.

80.00

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor.of secs. 10, 11, 14, and 15, with brass cap mkd.

T 2 N R 3 W

S	10
S	15
	S 11
	S 14

1912.

Dig pits, 18x18x12 ins., in each sec. 5 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Land, level.

Soil, clay mixed with fine marl.

Sub. T. 2 N., R. 8 W.-Continued.

Shrubland

No timber.

Undergrowth, shadscale and greenwood.

Good grass for grazing.

Land covered with dense undergrowth, 80.00 chs.

June 19, 1912: At this cor. I set off 23° 27' E., on the decl. arc; and at 0 h lmp.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40° 54' N., which is the proper lat. nearly.

---

East, on a true line bet. secs. 11 and 14.

Over level land; through dense undergrowth.

13.00 Road, bears NE and SW.

24.00 Leave undergrowth and enter alkali flat, bears N. and S.

40.00 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.
$$\begin{array}{c} \frac{1}{2} \\ \hline S & 11 \\ S & 14 \\ 1912. \end{array}$$
Dig pits, 18x18x12 ins., N. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

80.00 Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, with brass cap mkd.

$$\begin{array}{c} T 2 N R 8 W \\ \hline S 11 & S 12 \\ \hline S 14 & S 13 \\ 1912. \end{array}$$
Dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land, level.

Soil, clay loam; 2nd rate on W. 24.00 chs. and clay 3rd rate on E. 56.00 chs.

No timber.

Undergrowth, greenwood and shadscale.

No grass.

Land covered with dense undergrowth, 24.00 chs.

Sub.T.2 U.; R.8 W.-Continued.

## Chains

S.0°01'E., on a true line bet.secs.13 and 14.

Over level alkali flat,

.15 West shore of Great Salt Lake, bears NE and SW.

Water 15.00 chs.East.

Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for meander cor.of secs.13 and 14,with brass cap mkd.

T 2 N R 8 W  
 S 14' S 13'  
 M C  
 1912.

Dig a pit,36x36x12 ins.,N.of post,8 ft.dist.;and raise a mound of earth,4 ft.base,2 ft.high,N.of cor.land,level.

Soil,clay ;3rd rate.

No timber or undergrowth.

No grass.

East, on a true line bet.secs.12 and 13.

Over barren alkali flat.

.40 The west shore of Great Salt Lake ,bears NE and SW.

Water 15.00 chs.out.

Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for meander cor.of secs.12 and 13,with brass cap mkd.

T 2 N R 8 W  
 S 12' M C  
 S 13'  
 1912.

Dig a pit,36x36x12 ins.,W.of post,8 ft.dist.;and raise a mound of earth,4 ft.base,2 ft.high,W.of cor.land,level.

Soil,clay loam;3rd rate.

No timber or undergrowth.

No grass.

N.0°01'W.,bet.secs.11 and 12.

Sub.T.2 N., R.8 W.-Continued.

Chains

Over level land; through scattering undergrowth.

1.50 Enter dense undergrowth, bears E. and W.

26.50 Leave undergrowth and enter barren alkali flat, bears NW and SE.

27.44 To west shore of Great Salt Lake, bears NW and SE.

2.00 chs. from waters edge.

Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for meander cor. of secs. 11 and 12, with brass cap mkd.

T 2 H R 8 W  
 S 11 | S 12  
 MC |  
 S 12.

1912.

Dig a pit, 36x36x12 ins., S. of post, 8 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land, level.

Soil, clay; 2nd and 3rd rate.

Subsoil, marl.

Undergrowth, shadscales and greasewood.

No timber.

No grass.

Land covered with dense undergrowth, 25.00 chs.

N.0°02'W., bet. secs. 10 and 11.

Over level land; through dense undergrowth.

28.60 Road, bears N.W. and SE.

40.00 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

1.  
 2.  
 S 10 | S 11

1912.

Dig pits, 18x18x12 ins., N. and S. of post, 5 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, E. of cor.

74.75 Leave dense undergrowth and enter scattering undergrowth, bears E. and W.

Sub.T.2 N., R.8 W.-Continued.

Chains

80.00 Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 2, 3, 10 and 11, with brass cap mkd.

T 2 N R 8 W  
S 5 | S 2  
S 10 | S 11  
1912.

Dig pits, 18x18x12 ins., in each sec 5 $\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level.

Soil, clay loam; 2nd rate 2 ft. deep.

Subsoil, hard pan.

No timber.

Undergrowth, shadscales and greasewood.

A very little grass.

Land covered with dense undergrowth, 74.75 chs.

East, on a true line bet. secs. 2 and 11.

Over level land; through scattering undergrowth.

.25 The west shore of Great Salt Lake.

Water 20.00 chs. east.

Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for meander cor. of secs. 2 and 11, with brass cap mkd.

T 2 N R 8 W

~~S 2~~  
~~S 11 MC~~  
1912.

Dig a pit, 36x36x12 ins. W of post, 8 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay loam; 2nd rate.

No timber.

Undergrowth, shadscales.

No grass.

Sub.T.2 R.8 -Continued.

## Chains

N.0°02'W., on a true line bet. secs. 2 and 3.

Over level land.

.25 To west shore of Great Salt-Lake, bears W. and SW.

Water 20 chs: east.

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for meander cor. of secs. 2 and 3, with brass cap mkd.

T 2 N R 8 W  
 M C  
 S 3 S 2  
 1912.

Dig a pit, 36x36x12 ins., S. of post, 8 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor..

Land, level.

Soil, clay; 3rd rate.

No timber, grass or undergrowth.

June 19, 1912.

June 20, 1912: At 7 h 1 m a.m., l.m.t., I set off 40°51'N., on the lat.arc; 23°28'N., on the decl.arc; and determine a meridian with the solar, at the cor. of secs. 5, 4, 33, and 34, on S.bdy. of Tp., heretofore described.

Thence I run

N.0°02'W., bet. secs. 33 and 34.

Over level land; through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1 sec.cor., with brass cap mkd.

S 33 S 34  
 1912.

dig pits, 18x18x12 ins., N. and S. of post, 5 ft. dist.; and raise a mound of earth, 3 ft. base, 1 ft. high, N. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 27, 28, 36, and 34, with brass cap mkd.

Sub. T. 2 N., R. 8 W. -Continued.

Chains	T 2 N R 8 W S 28 S 27 S 33 S 34 1912.
	Dig pits, 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
	Land, level.
	Soil, clay and sandy loam; 2 ft. deep; 3rd rate.
	No timber.
	Undergrowth, greasewood and sage brush.
	No timber.
	No grass.
	Land covered with dense undergrowth, 80.00 chs.
	East, on a random line bet. secs. 27 and 34.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
80.02	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 26, 27, 34, and 35.
	Thence I run
	N. $89^{\circ}59'W.$ , on a true line bet. secs. 27 and 34.
	Over gently rolling valley; through dense undergrowth.
9.75	Road, bears N. $70^{\circ}E.$ and S. $70^{\circ}W.$ .
40.01	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor. with brass cap mfd.
	$\frac{1}{2}$ S 27 S 34 1912.
	Dig pits, 18x18x12 ins., E. and W. of post, 5 ft. dist. and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
80.02	The cor. of secs. 27, 28, 33, and 34.
	Land, rolling valley.
	Soil, clay and sandy loam; 2 ft. deep; 3rd rate.
	No timber.
	Undergrowth, greasewood and shadscales.
	No grass.
	Land covered with dense undergrowth, 80.02 chs.

Sub.T.2 N., R.3 W.-Continued.

Chains

June 20, 1912: At this cor. I set off  $23^{\circ}27'N.$ , on the decl. arc; and at 9 h 1 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}52'N.$ , which is the proper lat. nearly.

N. $0^{\circ}02'W.$ , bet. secs. 27 and 28.

Over gently rolling valley; through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

$\frac{1}{2}$   
S 28 | S 27  
1912.

Dig pits,  $18x18x12$  ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

00.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, with brass cap mkd.

T 2 N R 8 W  
S 21 | S 22  
S 28 | S 27  
1912.

Dig pits,  $18x18x12$  ins. in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling valley.

Soil, clay loam and sand 24 ins. deep; 2nd rate.

No timber.

Undergrowth, greasewood and shadscales.

No grass.

Land covered with dense undergrowth, 80.00 chs.

June 20, 1912.

June 21, 1912: At 7 h 1 m a.m., l.m.t., I set off  $40^{\circ}53'N.$ , on the lat. arc;  $23^{\circ}28'N.$ , on the decl. arc; and determine a meridian with the solar; at the cor. of secs. 21, 22, 27, and 28.

Thence I run

## Sub.T.2 N., R.3 W.-Continued.

## Chains

S.89°59'E., on a random line bet.secs.22 and 27.

40.00 Set temp.  $\frac{1}{2}$  sec.cor:

80.04 Intersect N.and S.line, 2 lks.N.of the cor.of secs.22,23,26, and 27.

Thence I run

N.89°58'W., on a true line bet.secs.22 and 27.

Over gently rolling valley; through dense undergrowth.

24.10 Road, bears N.10°W. and S.10°E.

40.02 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{2}$  sec.cor.with brass cap mkd.

$\frac{1}{2}$	✓
S	22
S	27
1912.	

Dig pits, 18x18x12 ins., N.and W.of post, 3 ft.dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.

80.04 The cor.of secs.21,22,27, and 28.

Land, rolling valley.

Soil, clay loam and sand; 2 ft.deep.; 2nd and 3rd rate.

No timber.

Undergrowth, greasewood and shadscales.

No grass.

Land covered with dense undergrowth, 80.04 ahs.

H.0°02'W., bet.secs.21 and 22.

Over gently rolling valley; through dense undergrowth.

10.50 Road, bears NE and SW.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for  $\frac{1}{2}$  sec.cor.with brass cap mkd.

$\frac{1}{2}$	✓
S	21
S	22
1912.	

Dig pits, 18x18x12 ins., N.and S.of post, 3 ft.dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, W.of cor.

80.00 Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.15,16,21, and 22,with brass cap mkd.

## Sub.T.2 N., R.8 W.-Continued.

Chains

T 2	E	R 8	W
S 16		S 15	
S 21		S 22	

1912.

Dig pits, 18x18x12 ins., in each sec. 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Land, rolling valley.

Soil, clay and sandy loam; 2 ft. deep; 2nd rate.

No timber.

Undergrowth, gresswood and shadscales.

No grass.

Land covered with dense undergrowth, 80.00 chs.

June 21, 1912: At this cor. I set off 23°28' W., on the decl. arc; and at 0 h 1 m p.m., l.n.t., I observe the sun on the meridian, the resulting lat. is 40°54' N., which is the proper lat. nearly.

S.89°58' E., on a random line bet. secs. 15 and 22.

40.00 Set temp. ½ sec.cor.

80.03 Intersect N. and S. line, 3 1/2 a. N. of the cor. of secs. 14, 15, 22, and 23.

Thence I run

N.89°57' W., on a true line bet. secs. 15 and 22.

Over gently rolling land; through dense undergrowth.

12.30 Road, bears N.30° E. and S.50° W.

40.04 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for ½ sec.cor., with brass cap riv'd.

S .15'
S 22'

1912.

Dig pits, 18x18x12 ins., E. and W. of post, 5 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

80.00 The cor. of secs. 15, 16, 21, and 22.

Land, rolling valley.

Soil, clay loam and sand; 2nd rate .2 ft. deep.

No timber.

Undergrowth, shadscales and gresswood.

Sub.T.2 N., R.8 W.-Continued.

Chains

No grass.

Land covered with dense undergrowth, 80.08 chs.

N.0°02'W., bet. secs. 15 and 16.

Over gently rolling valley; through dense undergrowth.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for cor. of sec. 16, with brass cap mkd.

S 16	S 15
------	------

1912.

Dig pits, 18x18x12 ins., N. and S. of post, 5 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

70.00 Road, bears NE and. SW.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 9, 10, 15, and 16, with brass cap mkd.

T 2 N R 8 W	
S 9	S 10
S 16	S 15

1912

Dig pits, 18x18x12 ins., in each sec. 5 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level .

Soil, clay loam and sandy 24 ins. deep, 2nd rate.

No timber.

Undergrowth, greasewood and shadscales.

No grass:

Land covered with dense undergrowth, 80.00 chs.

June 21, 1912.

June 22, 1912: At 7 h 2 m a.m., l.m.t., I set off 40°54'N., on the lat.arc; 23°28'W., on the decl.arc; and determine a meridian with the solar at the cor. of secs. 9, 10, 15, and 16.

Thence I run

Sub.T.2 N., R.8 W.-Continued

Section

N.89°57'W., on a random line bet. secn. 10 and 15.

40.00 Set temp. i sec. cor.

80.10 Intersect N. end S. line, 5 1/2 m.s. of the cor. of secs. 10, 11, 14, and 15.

Thence I run

N.89°58'W., on a true line bet. secn. 10 and 15.

Over level land; through dense undergrowth.

33.00 Road, bears N.10°E. and S.10°N.

36.90 Road, bears N.30°W. and S.30°E.

40.05 Set an iron post, 5 ft. long, 1 in. in dia., 26 in. in the ground, for 1 sec. cor. with brass cap mkd.

S	10
S	15

1912.

Dig pits, 18x18x12 ins., N. and S. of post, 5 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

69.90 Road, bears NE and SW.

80.10 The cor. of secs. 9, 10, 15, and 16.

Land, level.

Soil, clay loam; 30 ins. deep.; 2nd rate.

Subsoil, clay.

No timber.

Undergrowth, shadscales and greenwood.

Good grass.

Land covered with dense undergrowth, 80.10 chs.

N.0°02'W., bet. secns. 9 and 10.

Over level land; through dense undergrowth.

1.60 Road, bears E. and W.

40.00 Set an iron post, 5 ft. long, 1 in. in dia., 26 in. in the ground, for 1 sec. cor. with brass cap mkd.

S	9	S	10

1912.

Dig pits, 18x18x12 ins., N. and S. of post, 5 ft. dist.; and raise a mound of earth, 3 1/2 ft. base, 1 1/2 ft. high, S. of cor.

## Sub.T.2 N., R.8 W.-Continued.

Chains							
73.80	Road, bears N.65°W. and S.65°E.						
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 3, 4, 9, and 10, with brass cap mkd.						
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>T 2 N</td><td>R 8 W</td></tr> <tr> <td>S 4</td><td>S 3</td></tr> <tr> <td><hr/>S 9</td><td>S 10</td></tr> </table>	T 2 N	R 8 W	S 4	S 3	<hr/> S 9	S 10
T 2 N	R 8 W						
S 4	S 3						
<hr/> S 9	S 10						
	1912.						
	Dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.						
	Land, level.						
	Soil, clay 12 ins. deep.						
	Subsoil, hard pan.						
	No timber.						
	Undergrowth, shadscales and greasewood.						
	A very little grass.						
	Land covered with dense undergrowth, 80.00 chs.						
	June 22, 1912: At this cor. I set off 23°27' N., on the decl. arc; and at 0 h 2 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40°55' N., which is the proper lat. nearly.						
	—						
	S.89°59'E., on a random line bet. secs. 5 and 10						
40.00	Set temp. $\frac{1}{2}$ sec. cor.						
80.04	Intersect N. and S. line, 7 lks. N. of the cor. of secs. 2, 3, 10, and 11.						
	Thence I run						
	N.89°56'W., on a true line bet. secs. 3 and 10.						
	Over level land; through scattering undergrowth.						
5.90	Road, bears NW and SW.						
6.00	Enter dense undergrowth, bears NW and SE.						
34.60	Road, bears N.20°E. and S.20°W.						
40.02	Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground, for $\frac{1}{2}$ sec. cor. with brass cap mkd.						
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>1</td><td>✓</td></tr> <tr> <td>S</td><td>3</td></tr> <tr> <td><hr/>S.</td><td>10</td></tr> </table>	1	✓	S	3	<hr/> S.	10
1	✓						
S	3						
<hr/> S.	10						
	1912.						

## Sub. T. 2 N. R. 8 W. Continued.

dig pits 18x18x12 ins. E. and W. of post, 3 ft. dist. and raise a mound of earth 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high S. of cor.

- 80.04 The cor. of secs. 3, 4, 9 and 10.  
Land, level. Soil, clay loam, 3rd. rate. Subsoil, sand. No timber.  
Undergrowth, shadscales and greasewood.  
A very little grass.  
Land covered with dense undergrowth 74.04 chs.

N. 0°03'W.. on a random line bet. secs. 3 and 4.

- 40.00 Set temp. t sec. cor.

- 80.93 Intersect N. bdy. of Tp. 4.29 chs. west of the cor. of secs. 3, 4, 33 and 34, heretofore described.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 3 and 4, with brass cap mkd.

T	3	N	R	8	W
S	33		S	34	
C.C.					
S	4		S	3	
T	2	N	R	8	W

1913

Dig pits 24x18x12 ins. E. and W., crosswise on each line, E. and W. 3 ft. and S. of post, 7 ft. dist. and raise a mound of earth 4 ft. base, 2 ft. high S. of cor.

NOTE: I destroy all marks on the cor. of secs. 3, 4, 33 and 34, which pertain to secs. 3 and 4, T. 2 N., R. 8 W.

Thence I run

S. 0°03'E. on a true line bet. secs. 3 and 4.

Over level land, through dense undergrowth.

- 8.50 Road, bears E. and W.

- 40.92 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

S	4		S	3	
1913					

Dig pits 18x18x12 ins. E. and S. of post, 3 ft. dist.

Sub. T. 2 N., R. 8 W.—Continued.

Chains

and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high  
W. of cor.

45.50 Road, bears N.  $60^{\circ}$ E. and S.  $60^{\circ}$ W.

80.93 The cor. of secs. 3, 4, 9 and 10.

Land, level.

Soil, clay loam, 3rd rate, about 1 ft. deep.

Subsoil, hard pan.

No timber.

Undergrowth, shadscales and greasewood.

A very little grass.

Land covered with dense undergrowth 80.93 chs.

June 22, 1912,

*John P. Stewart*  
U.S. Surveyor.

Survey commenced June 20, 1912, and executed with a Young and Sons light mountain transit No. 8517, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc. which is the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah on Feb. 17, 1912.

NOTE: For complete test of instrument see notes of Sub.

T. 1 N. R. 8 W.

At the cor. of secs. 4, 5, 32 and 33, on S. bdy. of Tp. heretofore described, latitude  $40^{\circ}41'17''$ N. longitude  $112^{\circ}46'09''$ W. I set off  $40^{\circ}51'$ N. on the lat. arc.  $23^{\circ}28'$ N. on the decl. arc. and at 7h 1m a.m., l.m.t., I determine a meridian with the solar.

Thence I run

N.  $0^{\circ}03'$ W. bet. secs. 32 and 33.

Over mountainous land, through dense undergrowth.

Sub.T.2 N., R.8 W.-Continued.

Chains

Desc. abruptly over granite ledges and boulders.

9.50 Bottom of hollow, 275 ft. deep, coarse N. 30° E.

Asc.

21.75 Point of rocky spur, 100 ft. above hollow, bears E. and W.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

$\frac{1}{2}$	/
S 32	S 33

1912.

Dig pits, 18x18x18 ins., N. and S. of post, 5 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, " of cor.

44.10 Wash, 8 ft. deep, 20 lks. wide, in hollow, 200 ft. deep, coarse N.

Asc.

79.90 Top of spur, 450 ft. above hollow, bears NW and SE.

Desc.

80.00 Set an iron post, 5 ft. long, 2 ins. in dia., 12 ins. in the ground, on rock, and surrounded by mound of stone, for cor. of secs. 28, 29, 32, and 33, with brass cap mkd.

T 2 U. R 8 W	
S 29	S 28
S 32	S 33

1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, " of cor.

Land rough and mountainous.

Soil, clay loam and loose rock; 4th rate.

Subsoil, rocky;

No timber.

Undergrowth, shadseales and greasewood.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

80.00 chs.

June 20, 1912: At this cor. I set off  $23^{\circ}27' N.$ , on the decl. arc; and at 0 h 1 m p.m., 1.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}52' N.$ , which is the proper lat. nearly.

Chains	
	Post, on a random line bet. secs. 28 and 33.
40.00	Set temp. 1 sec.cor.
80.04	Intersect N. and S. line, 2 lks. N. of cor. of secs. 27, 28, 33, and 34.  Thence I run N. $89^{\circ}59'W.$ , on a true line bet. secs. 28 and 33.  Over gently rolling land; through dense undergrowth.
58.08	County road, bears N. $20^{\circ}W.$ and S. $20^{\circ}E.$
40.02	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for, 1 sec.cor., with, brass cap mkd.
	<u>S. 28</u> <u>S. 33</u> 1912.
	Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
44.75	Begin abrupt ascent over granite ledges and boulders, bears N. $20^{\circ}W.$ and S. $20^{\circ}E.$ .
80.04	The cor. of secs. 28, 29, 32, and 33.  Land, rolling and mountainous.  Soil, clay loam and sandy on flat and clay and rock on mountainous land; 3rd rate.  No timber.  Undergrowth, greasewood, and shadscales and sage.  Good grass on mountainous land.  Mountainous land, or land covered with dense undergrowth.
80.04 chs.	
	N. $0^{\circ}03'W.$ , bet. secs. 28 and 29.
	Over mountainous land; through dense undergrowth.
	Desc..
15.50	Top of granite ledge, 75 ft. high, bears E. and W.
25.30	Bottom of hollow, 350 ft. below cor., course N.  Asc.
29.50	Wood road, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the

Sub.T.2 N., R.8 W.-Continued..

Chains

Ground, for  $\frac{1}{4}$  sec.cor.; with brass cap mkd.

S 29	S 28
------	------

1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

68.00 Top of rocky spur, 300 ft. above hollow, bears E. and W.

Desc. over ledges and boulders.

30.00 Set an iron post, 5 ft. long, 2 ins. in dia., 12 ins. in the ground, ~~on~~ rock, and surrounded by mound of stone, for cor. of secs. 20, 21, 28, and 29, with brass cap mkd.

T 2 N	R 8 W
S 20	S 21
S 29	S 28

1912.

And raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  $\frac{1}{4}$  of cor.

From this cor. the NW.cor. of John Hammonds cabin 8x10 ft. bears S.53°20'E., about 70.00 chs. dist.

Land rough and mountainous.

Soil, clay loam and rock; 4th rate.

Subsoil, clay and loose rock.

No timber.

Undergrowth, greasewood and shadscales.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

80.00 chs.

June 20, 1912.

June 21, 1912; At 7 h 1 min., l.m.t., I set off  $40^{\circ}53'W.$ , on the lat.arc;  $25^{\circ}28'N.$ , on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 20, 21, 28, and 29.

Thence I run

 $8.89^{\circ}59'E.$ , on a random line bet.secs. 21 and 28.

40.00 Set temp. of sec.cor.

80.02 Intersect N. and S. line, 5 lbs. N. of the cor.of secs. 21, 22, 27, and 28.

Thence I run

## Sub.T.2 N., R.8 W.-Continued.

Chains	N. $89^{\circ}57'W.$ , on a true line bet. secs. 21. and 28.
	Over gently rolling land; through dense undergrowth.
15.90	Old road, bears NW and SW.
25.05	Enter cultivated field, bears N. $6^{\circ}W.$ and S. $6^{\circ}E.$ , extends about 10.00 chs. each way.
40.01	Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor. with brass cap mkd.
	$\begin{array}{r} \frac{1}{4} \\ S. 21 \\ \hline S. 28. \end{array}$
	1912.
	Dig pits, 18x18x12 ins., E. and W. of post, 5 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, $\frac{1}{2}$ of cor.
40.95	Leave cultivated field bears N. $10^{\circ}W.$ and S. $10^{\circ}E.$ .
58.97	County road, bears N. $20^{\circ}W.$ and S. $20^{\circ}E.$ .
59.50	Begin steep ascent over granite ledges and boulders, bears NW and SW.
80.02	The cor. of secs. 20, 21, 28, and 29.
	Land, rolling valley and mountainous.
	Soil, clay loam and sandy on level and clay loam mixed with rock on mountain; 2nd and 4th rate respectively.
	Undergrowth, greasewood and shadseales.
	No timber.
	No grass.
	Mountainous land, or land covered with dense undergrowth.
	64.12 chs.
	<hr/>
	N. $0^{\circ}03'W.$ , bet. secs. 20 and 21.
	Over mountainous land; through dense undergrowth.
	Desc. abruptly over granite ledges and boulders.
16.55	Foot of ridge, bears NW and SE.
	Enter valley.
17.05	County road, bears N.W. and SE.
40.00	Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., with brass cap mkd.

## Sub T.2 N., R.8 W.-Continued.

Chains

S 20	S 21
1912.	

Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 16, 17, 20, and 21, with brass cap md.

T 2 N	R 8 W
S 17	S 16 ✓
S 20	S 21
1912	

Dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land mountainous and valley.

Soil, clay loam and rock on mountain and sandy with clay subsoil, on valley; 3rd rate.

No timber.

Undergrowth, greasewood and shadscales.

No grass.

Mountainous land, or land covered with dense undergrowth, 80.00 chs.

June 21, 1912: At this cor. I set off 23°28' N., on the decl. arc; and at 0 h 1 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40°54' N., which is the proper lat. nearly.

S.89°57' E., on a random line bet. secs. 16 and 21.

40.00 Set temp. 1 sec. cor.

80.06 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 15, 16, 21 and 22.

Thence I run

N.89°56' W., on a true line bet. secs. 16 and 21.

Over gently rolling valley through dense undergrowth.

40.03 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1 sec. cor., with brass cap md.

S 16	✓
S 21	
1912.	

- Chains dig pits, 18x18x12 ins., E. and W. of cor. 3 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- ✓ 80.06 The cor. of secs. 16, 17, 20, and 21.  
Land, rolling valley.  
Soil, sandy and clay subsoil, 3rd rate.  
No timber.  
Undergrowth, greasewood and shadscales.  
No grass.  
Land covered with dense undergrowth, 80.06 chs.
- N.  $0^{\circ}03'W.$ , bet. secs. 16 and 17.  
Over rolling valley; through dense undergrowth.
- 5.85 Road, bears NE and SW.
- 23.00 County road bears N.  $20^{\circ}E.$  and S.  $20^{\circ}W.$
- 40.00 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.
- |      |      |
|------|------|
| S 17 | S 16 |
|------|------|
- 1912.
- Dig pits, 18x18x12 ins., N. and S. of post, 5 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 60.60 County road, bears NW and SE.
- 80.00 Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 8, 9, 16, and 17, with brass cap mkd.
- |       |       |
|-------|-------|
| T 2 N | R 8 W |
| S 8   | S 9   |
| S 17  | S 16  |
- 1912.
- Dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- Land, rolling valley.
- Soil, sandy loam; 2nd rate. 12 ins. deep, on a subsoil of clay.
- No timber.
- Undergrowth, greasewood and shadscales.
- No grass.
- Land covered with dense undergrowth, 80.00 chs.

Sub.T.2 U., R.9 W.-Continued.

Chains

June 23, 1912.

June 23, 1912: At 7 h 8 m a.m., l.m.t., I set off 40°55' E., on the lat. arc; 25°28' W., on the decl. arc; and determine a meridian with the solar; at the cor. of secs. 8, 9, 16, and 17. Thence I run

S.89°58' E., on a random line bet. secs. 9 and 16.

40.00 Set temp. & sec.cor.

80.04 Intersect N. and S. line, 5 lbs. S. of the cor. of secs. 9, 16, 15, and 16.

Thence I run

N.89°58' W., on a true line bet. secs. 9 and 16.

Over rolling valley; through dense undergrowth.

40.02 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for a sec.cor. with brass cap riv'd.

$$\begin{array}{r} \frac{2}{S} \\ \frac{9}{S} \end{array}$$

1912.

Dig pits, 18x18x12 ins., N. and W. of post, 5 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

80.04 The cor. of secs. 8, 9, 16, and 17.

land, rolling valley.

Soil, sandy loam; 12 ins. deep. 2nd rate; on subsoil of clay.

No timber.

Undergrowth, greasewood and shadscale.

No grass.

Land covered with dense undergrowth, 80.04 chs.

N.89°55' W., bet. secs. 8 and 9.

Over rolling valley; through dense undergrowth,

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for a sec.cor. with brass cap riv'd.

Sec. line

S 3	S 9
1912.	

Dig pits, 18x18x12 ins., N. and S. of post, 5 ft. dist. and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

69.00 Road, bears NW and SE.

80.00 Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 4, 5, 8, and 9, with brass cap mkd.

T 2 N	R 8 W
S 5	S 4
S 8	S 9
1912.	

Dig pits, 18x18x12 ins. in each sec. 5 $\frac{1}{2}$  ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Note: From this cor. Evan Flack's well bears S.9°11'W. about 85.00 chs.

Land rolling valley.

Soil, sandy loam about 12 ins. deep.; 2nd ratio.

Subsoil, clay.

No timber.

Undergrowth, greasewood and shadscales...

Good grass for grazing.

Land covered with dense undergrowth, 80.00 chs.

June 22, 1912: At this cor. I set off 25°27'N., on the decl. arc; and at 0°h 2 m.p.m., l.m.t., I observe the sun on the meridian the resulting lat. is 40°56'N., which is the proper lat. nearly.

S.89°58'W., on a random line bet. secs. 4 and 9.

40.00 Set temp. 1 sec.cor.

80.02 Intersect N. and S. line, 3 lks. S. of the cor. of secs. 3, 4, 9, and 10.

Thence I run

N.89°59'W., on a true line bet. secs. 4 and 9.

Over rolling valley; through dense undergrowth.

40.01 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec.cor. with brass cap mkd.

Chains

S	4
S	9

1912

- Dig pits, 18x18x12 ins., E. and W. of post, 5 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
 80.02 The cor. of secs. 4, 5, 8, and 9.  
 land, gently rolling.  
 Soil, clay loam and sand; 2nd rate.  
 Subsoil, clay.  
 No timber.  
 Undergrowth, greasewood and shadscales.  
 Good grass for grazing.  
 Land covered with dense undergrowth, 80.02 chs.

Note: Knowing from connections already made that a closing cor. will be necessary on N. bdy.; therefore I run H.0°03'W., on a true line bet. secs. 4 and 5.  
 Over rolling valley; through dense undergrowth.

35.85 Road, bears E. and W.

40.00 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for 1 sec. cor. with brass cap mkd.

S 5	4
-----	---

1912.

Dig pits, 18x18x12 ins., N. and S. of post, 5 ft. dist.; and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 30.91 Intersect N. bdy. of Tp., 4.32 chs: West of the cor. of secs. 4, 5, 32, and 33, heretofore described.

Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 4 and 5, with brass cap mkd.

T 3 N	R 8 W
S 32	S 33
C C	
S 5	S 4
T 2 N	R 8 W

1912

Dig pits, 24x18x12 ins., crosswise on each line, E. and W., 3 ft. and S. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. high, 2 ft. high, S. of cor.

Sub.T.2 N., R.8 W.-Continued.

## Chains

Note:I destroy all marks on the cor.of secs.4,5,32, and 33,  
pertaining to Tp.2 N.  
Land rolling valley.  
Soil,clay loam and sand;2nd rate.  
Subsoil,clay ;  
No timber.  
Undergrowth,greasewood and shadscales.  
No grass.  
Land covered with dense undergrowth,80,91 chs.

June 22,1912.

June 24,1912:At 7 h 2 m a.m.,l.m.t.,I set off  $40^{\circ}51'N.$ ,on  
the lat.arc; $23^{\circ}27'N.$ ,on the decl.arc;and determine a  
meridian with the solar,at the cor.of secs.5,6,31, and 32.  
on S.bdy.of Tp., heretofore described.. Thence I run  
 $N.0^{\circ}04'W.$ ,bet.secs.31 and 32.

Over mountainous land;through dense undergrowth.

Asc.

- 14.25 Top of ridge,50 ft.above cor.,bears E.and W.  
Desc.in bottom of hollow,course N.  
35.00 Leave bottom of hollow,course N. $10^{\circ}W.$   
Asc.  
40.00 Set an iron post,3 ft.long,1 in.in dia.,26. ins.in the  
ground,for  $\frac{1}{2}$  sec cor.with brass cap md.

S 31 | S 32  
1912.

And raise a mound of stone,2 ft.base, $1\frac{1}{2}$  ft.high,W.of cor.

- 48.50 Enter heavy timber,bears NW and SE.  
60.50 Top of rocky spur,200 ft. above hollow,bears E.and W.  
Desc.  
66.00 Leave timber,bears E.and W.  
77.50 Hollow,350 ft.below ridge;course N. $35^{\circ}E.$   
Asc.

Sub.T.2 N., R.8 W.-Continued.

Chains

- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground, on rock, and surrounded by mound of stone, for cor. of secs. 29, 30, 31, and 32, with brass cap mkd.

T 2 N	R 8 W
S 30	S 29
S 31	S 32

1912.

And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. land, mountainous; steep and rough.

Soil, clay mixed with rock. 3rd rate.

Timber, cedar and pinon pine green.

Undergrowth, sage brush and rabbit brush and mahogany.

Good grass for grazing.

June 24, 1912: At this cor. I set off  $23^{\circ}26'N.$ , on the decl. arc; and at 0 h 2 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is  $40^{\circ}52'N.$ , which is the proper lat. nearly.

East, on a random line bet. secs. 29 and 32.

- 40.00 Set temp. of sec. cor.

- 79.80 Intersect N. and S. line, 5 lks. N. of the cor. of secs.

28, 29, 32, and 33.

Thence I run

N.  $89^{\circ}58'W.$ , on a true line bet. secs. 29 and 32.

Over mountainous land; through dense undergrowth.

Asc.

- 2.00 Top of ridge, bears NW and SE.

Desc.

- 11.80 Bottom of hollow, 200 ft. below ridge, course N.

Asc.

- 22.50 Top of spur, 20 ft. above hollow, bears N. and S.

Desc.

- 39.00 Bottom of hollow, 60 ft. below ridge, course N.  $30^{\circ}E.$

Asc.

- 39.90 Set an iron post, 5 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, and surrounded by mound of stone, for

Chains	↓ sec.cor.with bottom cap mkd.
	$\frac{S}{S} \frac{29}{52}$
	1912.
	And raise a mound of stone, 2 ft. base, 1 ft. high, N. of cor.
50.00	Top of ridge, 50 ft. above hollow, bears N.30°E. and S.30°W. Desc.
75.25	Bottom of hollow, 200 ft. below ridge, course N.70°E. Asc.
79.80	The cor.of secs.29,30,31, and 32. Land, mountainous. Soil, clay loam mixed with gravel and rock; 3rd rate. No timber. Undergrowth, sage brush, greenwood and rhodony. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 79.80 chs.
	West, on a random line bet.secs.30 and 31.
40.00	Set temp.y sec.cor.
75.50	Intersect W.bdy.of Tp., 23 ins.S. of the cor.of secs.25,30,31, and 36., which is a limestone, 10x8x6 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor-general. Thence I run S.89°50'E., on a true line bet.secs.30 and 31. Over mountainous land; through heavy cedar and pinon pine timber. Asc.abruptly over ledges.
8.25	Top of ridge, 150 ft. above cor., bears NE and SW. Desc.abruptly over ledges.
53.60	Bottom of canon, 800 ft. below ridge, course NE. Leave ledges, bears NE and SW. Asc.
55.50	Set an iron post, 5 ft.long, 1 in.in dia., 26 ins.in the

## Sub.T.2 N., R.8 W.-Continued.

Chains	ground, for $\frac{1}{2}$ sec.cor., with brass cap mka.  S      30 S      31 1912.
44.00	End raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
	Top of ridge, 300 ft. above canon, bears N <sub>E</sub> and SW.
	Desc.
46.70	Ledge, 25 ft. high, bears N <sub>E</sub> and SW.
57.75	Leave timber, bears N. and S.
75.50	The cor. of secs. 29, 30, 31, and 32.
	Land, mountainous.
	Soil, clay mixed with rock; 3rd rate.
	Timber, cedar and pinon pine.
	Undergrowth, mahogany and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 75.50 chs..

June 24, 1912.

June 25, 1912: At 7 h 2 m a.m., l.m.t., I set off  $40^{\circ}52'W.$ , on the lat.arc;  $23^{\circ}25'N.$ , on the decl.arc; and determine a meridian, with the solar, at the cor. of secs. 29, 30, 31, and 32.

Thence I run

 $W.0^{\circ}04'W.$ , bet. secs. 29 and 30.

Over mountainous land; through dense undergrowth.

Asc.

11.50 Top of ridge, 200 ft. above cor., bears N. and W.

Desc.

29.25 Bottom of hollow, 150 ft. below ridge, course N.

Asc.

55.00 Top of spur, 25 ft. above hollow, bears N. and W.

Desc.

## Sub. T.2 N., R.8 W.-Continued.

Chrs ns

35.50 Bottom of hollow, 75 ft. below ridge, course E.

Asc.

40.00 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for sec. cor. with brass cap mkd.

T 30	S 29
------	------

.1912.

And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

50.25 Top of spur, 150 ft. above hollow, bears NE and SW.

Desc.

59.60 Bottom of hollow, 140 ft. below spur, course SW.

Asc.

75.00 Top of ridge, 200 ft. above hollow, bears E. and W.

Desc.

80.00 Set an iron post, 5 ft. long, 2 ins. in dia., 14 ins. in the ground, on rock, and surrounded by mound of stone, for cor. of secs. 19, 20, 29, and 30, with brass cap mkd.

T 2 N R 8 W	
S 19	S 20
S.30	S 29

1912.

And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
Land, mountainous.

Soil, red clay mixed with rock; 1 ft. deep.

Subsoil, gravel.

No timber.

Undergrowth, sage and mahogany.

Good grass for grazing.

Mountainous land, covered with dense undergrowth.

80.00 chs.

S.89°58'E., on a random line bet. secs. 20 and 29.

40.00 Set temp. 1 sec. cor.

79.84 Intersect N. and S. line, 9 1/2 in. S. of the cor. of secs. 20, 21, 28, and 29.

Thence E. run

S.89°58'E., on a true line bet. secs. 20 and 29.

## Sub.T.2 N., R.8 W.-Continued.-

Chains	Over mountainous land; through dense undergrowth.
23.00	Asc. abruptly, over granite ledges and boulders.
39.92	Rocky ridge, 300 ft. above cor., bears NE and SW. Desc. Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor. with brass cap mkd.
	$\begin{array}{r} \frac{S}{S} \\ \frac{20}{29} \\ \hline 1912. \end{array}$
44.50	And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Rocky hollow, 250 ft. deep, course NE. Asc.
72.00	Top of ridge, 200 ft. above hollow, bears N. and S. Desc.
79.84	The cor. of secs. 19, 20, 29, and 30. Land, rough, and mountainous. Soil, clay loam and loose rock; 4th rate. Subsoil, clay and loose rock. No timber. Undergrowth, greasewood and shadscales. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 79.84 chs.
	June 25, 1912: At this cor. I set off $25^{\circ}24' N.$ , on the decl. arc; and at 0 h 2 m pm., l.m.t., I observe the sun on the meridian, the resulting lat. is $40^{\circ}53' U.$ , which is the proper lat. nearly.
40.00	N. $89^{\circ}50' W.$ , on a random line bet. secs. 19 and 30. Set temp. $\frac{1}{2}$ sec. cor.
75.26	Intersect W. bdy. of Tp., 10 lks. S. of the cor. of secs.
19.24	25, and 30. which is a blue limestone, 5x10x5 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. Thence I run

Sub.T.2 N., R.8 W.-Continued.-

Chains	S.89°46'E., on a true line bet. secs. 19 and 30. Over mountainous land; through dense undergrowth. Desc. abruptly.
26.50	Top of ridge, 250 ft. above cor., bears N.20°E. and S.20°W. Desc. .
35.26	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on rock, and surrounded by mound of stone, for sec.cor., with brass cap md.
	$\frac{S.}{S.} \frac{19.}{30}$ 1912
	And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
44.70	Old road, bears N. and S..
44.75	Bottom of hollow, 300 ft. below ridge, course N.10°E. Asc. over a series of limestone ledges.
58.20	Top of abrupt ascent, 400 ft. above hollow, bears N. and S. Asc. gently.
75.26	The cor. of secs. 19, 20, 29, and 30. Land, mountainous . Soil, clay mixed with rock; 3rd rate. Subsoil, clay and ledges of limestone. No timber . Undergrowth, sage and rabbit brush. and mahogany. Good grass for grazing..
	Mountainous land, or, land covered with dense undergrowth, 75.26 chs. .
	H.0°04'W., bet. secs. 19 and 20.
	Over mountainous land; through dense undergrowth, Desc. gradually over large limestone boulders.
10.00	Begin abrupt descent, bears E. and W..
20.50	Bottom of hollow, 150 ft. below cor., course W. Asc. .
33.00	Top of ridge, 200 ft. high, bears E. and W..

## Sub. T.2 N., R.8 W.-Continued.

Chains

- Desc. abruptly over ledges and boulders.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground, on rock, and surrounded by mound of stone, for sec. cor. with brass cap mkd.
- |       |        |
|-------|--------|
| S 19  | S 20 ✓ |
| 1912. |        |
- And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.
- 59.80 Vertical ledge, 50 ft. high, bears E. and W.
- 71.00 Foot of abrupt descent, bears E. and W.
- Leave ledges and boulders, bears E. and W.
- Desc. gradually.
- 71.10 Old road, bears N. 85° E. and S. 85° W.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in the dia., 20 ins. in the ground, on rock, and surrounded by mound of stone and earth, for cor. of secs. 17, 18, 19, and 20, with brass cap mkd.
- |               |  |
|---------------|--|
| T 2 N   R 8 W |  |
| S 18   S 17 ✓ |  |
| S 19   S 20   |  |
| 1912          |  |
- And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.
- Land, mountainous.
- Soil, clay mixed with rock and boulders.
- Subsoil, rock and ledges.
- No timber.
- Undergrowth, sage, greasewood, and shadscales.
- Good grass for grazing.
- Mountainous land, or land covered with dense undergrowth,
- 80.00 chs.

June 25, 1912.

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June 26, 1912: At 7 h 2 m a.m., l.m.t., I set off 40° 54' N., on the lat. arc; 23° 24' N., on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 17, 18, 19, and 20.

Thence I run

- Chains      N.  $39^{\circ}58' E.$ , on a random line bet. secs. 17 and 20.
- 40.00 Set temp. & sec. cor.
- 79.86 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 16, 17, 20, and 21.  
Thence I run  
 $3.89^{\circ}56' W.$ , on a true line bet. secs. 17 and 20.  
Over gently rolling land; through dense undergrowth.
- 3.10 Leave undergrowth, and enter cleared land, bears N. and S.
- 4.22 County road, bears N.  $10^{\circ} E.$  and S.  $10^{\circ} W.$
- 22.90 Leave cleared land and enter dense undergrowth, bears N. and S.
- 39.79 County road, bears N. and S.
- 39.93 Set. and iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.
- S 17  
S 20  
1912.
- Dig pits, 18x18x12 ins., E. and W. of post, 5 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.
- 52.00 Begin ascent over ledges, and boulders, bears N. and S.
- 77.00 Top of ridge, 100 ft. above valley, bears N. and S.
- Desc.
- 79.86 The cor. of secs. 17, 18, 19, and 20.  
Land, mountainous and rolling.  
Soil, sandy; 3rd rate. Subsoil, clay.  
No timber.  
Undergrowth, sage and shadscales.  
Good grass.  
Mountainous land, or land covered with dense undergrowth,  
79.86 chs.
- 
- N.  $39^{\circ}46' W.$ , on a random line bet. secs. 18 and 19.
- 40.00 Set temp. & sec. cor.
- 75.00 Intersect W. bdy. of Tp., 5 lks. S. of the cor. of secs. 13, 18, 19, and 24, which is a limestone, 8x8x6 ins., above ground,

Sub.T.3 N., R.8. W.-Continued.

Chains

firmlly set, and mkd. and witnessed as described by the surveyor general.

Thence I run

S.89°44' E., on a true line bet. secs. 18 and 19.

Over mountainous land; through dense undergrowth and heavy timber.

Desc. abruptly over ledges, and boulders of blue limestone.

3.50 Leave timber, bears N. and S.

8.50 Perpendicular ledge, 125. ft. high, bears N.70°W. and S.70°E.

12.00 Leave ledges, bears N. and S.

35.00 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for  $\frac{1}{2}$  sec. cor. with brass cap mkd.

S. 18 ✓  
S. 19

1912

Dig pits, 18x18x12 ins., N. and W. of post, 5 ft. dist.; and raise a mound of earth, 3 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

36.10 Road, bears N. and S.

58.20 Road, bears NW and SW.

63.20 Broad hollow, 500 ft. below ridge, course N.50°E.

Ave.

75.00 The cor. of secs. 17, 18, 19, and 20.

Land, mountainous.

Soil, clay loam and rocky; 3rd and 4th rate.

Subsoil, gravel and rock.

Timber, cedar and pinon pine.

Undergrowth, sage and greasewood and ~~ashad~~scales.

Good grass.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 75.00 chs.

June 26, 1912: At this cor. I set off 25°22' W., on the decl. arc; and at 0 h 3 m. p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40°54' N., which is the proper lat. nearly.

Chains	
	N.0°04'W., bet. secs. 17 and 18.
	Over mountainous land; through dense undergrowth.
	Desc.along west side of ridge.
17.00	Foot of descent, 100 ft. below cor.bears E. and SW.
	Enter valley.
320.00	Road, bears N.70°E. and S.70°W. This is the southwest cor.of J.L.Horne's claim and the SE cor.of Woods' claim.
22.90	Road, bears N.70°E. and S.70°W.
25.00	Fash, 6 ft. deep, 60 lks. wide, course E.
27.10	Road, bears N.80°E. and S.80°W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec.cor.with brass cap mkd.
	S 18   S 17 ✓ 1912.
	Dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, $5\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
72.80	County road, bears N.50°W. and S.50°E.
76.00	South side of ploughed land belonging to Weed, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor.of secs. 7, 8, 17, and 18, with brass cap mkd.
	T 2 N R 8 W S 7   S 8 ✓ S 18   S 17 1912.
	Dig pits, 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	This is the NE cor.of Woods' claim; the SE cor.of T T Larabee's claim.
	S.17.00 chs.is mountainous land covered with sage and shadscales and gravelly soil. N.63.00 is level valley with clay, and sandy loam 3 ft. deep. subsoil, clay. No timber.
	Undergrowth, shadscales and greasewood.

Chains	Good grass.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	N.89°56'E., on a random line bet. secs. 8 and 17.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
79.92	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 8, 9, 16, and 17. Thence I run S.89°57'W., on a true line bet. secs. 8 and 17. Over level land; through dense undergrowth.
3.60	County road, bears N. and S.
13.00	Enter Evan Flack's grain field, bears North about 1 ch. and South about 29.00 chs. and containing about 65 acres.
34.70	Leave grain field, bears N. and S.
59.96	Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor. with brass cap mfd.
	$\begin{array}{r} \text{S} \\ \text{---} \\ \text{S} \end{array} \begin{array}{l} \frac{8}{\text{---}} \\ \frac{17}{\text{---}} \end{array}$ 1912.
	Dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Evan Flack's well bears S.78°30'E. about 30.00 chs. dist. House about 2 chs. W. of well.
61.00	Leave greasewood and enter shadscales undergrowth, bears N. and S.
74.60	Enter ploughed land, belonging to J. L. Horne, bears N. and S.
79.92	The cor. of secs. 7, 8, 17, and 18. Land, level. Soil, clay and sandy loam; 3rd rate. 3 ft. deep. No timber. Undergrowth, shadscales and greasewood. Good grass for grazing. Land covered with dense undergrowth, 52.90 chs.

## Sub.T.2 N., R.8 W.-Continued.

Chains	
	N. $39^{\circ}44'W.$ , on a random linebet.secs.7 and 18.
40.00	Set temp. $\frac{1}{2}$ sec.cor.
74.76	Intersect W.bdy.of Tp., 10 lks.S.of the cor.of secs.7,12, 13, and 18 which is a limestone, 6x10x4 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general.
	Thence I run
	$S.39^{\circ}40'E.$ , on a true line bet.secs.7 and 18.
	Over mountainous land; through dense undergrowth.
	Desc.
5.00	Foot of descent, 50 ft. below cor, bears N. and S.. Enter valley.
29.25	Road, bears N. $25^{\circ}W$ and S. $25^{\circ}E.$
54.76	Set an iron post, 5 ft.long, 1 in.in dia., 26 ins.in the ground for $\frac{1}{2}$ sec.cor.with brass cap mkd.
	$\begin{array}{r} \frac{1}{2} \\ S. 7. \\ \hline S. 18. \\ 1912. \end{array}$
	Dig pits, 18x18x12 ins., E.and W.of post, 3 ft.dist.; and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high, N.of cor.
41.45	Enter ploughed land belonging to Mr. Weed, bears N. and S.
68.65	County road, bears N. $30^{\circ}W.$ and S. $30^{\circ}E.$
74.76	The cor.of secs:7,8,17, and 18.
	Land; mountainous land; and level.
	Soil, clay and sandy loam; 2nd rate.
	Subsoil, clay.
	No timber.
	Undergrowth; shadscales and greasewood.
	Good grass.
	Mountainous land, or land covered with dense undergrowth,
41.45 chs.	

June 26, 1912.

June 27, 1912: At 7 h/3 m.a.m., l.m.t., I set off  $40^{\circ}55'N.$ , on

Chains	lat.arc; $23^{\circ}21'N.$ , on the decl.arc; and determine a meridian with the solar, at the cor.of secs.7,8,17, and 18. Thence I run $N.0^{\circ}04'W.$ , betsecs.7 and 8. Over level cultivated land, belonging to T.T.Larabee
1.00	Leave ploughed land and enter dense undergrowth, bears E.and W.
20.00	NW cor.of J.L.Horne's claim.
21.25	Road, bears $N.80^{\circ}W.$ and $S.80^{\circ}E.$ .
40.00	Set an iron post, 5 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{2}$ sec.cor., with brass cap mkd.
	$T\ 2\ N\ R\ 8\ W$ $S\ 6\   S\ 5\ \checkmark$ $S\ 7\   S\ 8$ 1912
	End raise a mound of stone, 2 ft.base, 1 $\frac{1}{2}$ ft.high, $\frac{1}{2}$ of cor.
43.00	Leave valley and ascend ridge, bears E.and W.
50.00	Top of ridge, 60 ft.high, bears $N.80^{\circ}W.$ and $S.80^{\circ}E.$ Desc.gradually.
80.00	Set an iron post, 5 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.5,6,7, and 8, with brass cap mkd.
	$T\ 2\ N\ R\ 8\ W$ $S\ 6\   S\ 5\ \checkmark$ $S\ 7\   S\ 8$ 1912
	Dig pits, 18x18x12 ins.in each sec.5 $\frac{1}{2}$ ft.dist.; and raise a mound of earth, 4 ft.base, 2 ft.high, $\frac{1}{2}$ of cor. Land, level and rolling. Soil, clay mixed with sandy and some rock; 2 ft.deep, Subsoil, clay. No timber. Undergrowth, shadsecales and greasewood. Good grass for grazing. Land covered with dense undergrowth, \$0.00 chs..
	$N.89^{\circ}57'E.$ , on a random line betsecs.5 and 8.
40.00	Set temp. $\frac{1}{2}$ sec.cor.

Sub. S. E., R. 8 W.-Continued.

Chains

79.93 Intersect N. and S. line, 5 lms. S. of the cor. of secs. 4, 5, 6, and 9.

Thence I run

S. 89°52' W., on a true line bet. secs. 5 and 8

Over gently rolling valley; through dense undergrowth.

11.30 County Road, bears NW and SE.

24.70 County road, bears N. and S.

20.00 Leave valley, and begin ascent, bears N. and S.

39.99 Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for 4 sec. cor., with brass cap mkd.

$$\begin{array}{r} \text{S } 5 \\ \hline \text{S } 8 \\ 1912. \end{array}$$

And raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.

58.30 Rocky spur, 75 ft. above valley, bears N. and S.

Desc. gradually.

79.93 The cor. of secs. 5, 6, 7, and 8.

Land, mountainous and level.

Soil, clay mixed with sand. and rock; 2nd and 3rd rate.

No timber.

Undergrowth, shadscales and greasewood.

Good grass.

Mountainous land, or land covered with dense undergrowth,

79.93 chs.

June 27, 1912: At this cor. I set off 23°20' N., on the decl.

arc; and at 0 h 5 m p.m., 1 m.t., I observe the sun on the meridian, the resulting lat. is 40°56' N., which is the proper lat. nearly.

S. 89°40' W., on a random line bet. secs. 6 and 7.

40.00 Set temp. 1 sec. cor.

74.76 Intersect W.bdy. of Tp. 25 lms. S. of the cor. of secs.

1, 5, 6, 7, and 12. which is a limestone, 10x12x3 ins., above ground, firmly set, and m.d. and witnessed as described by the surveyor general.

## Sub.T.P N., R.8 W.-Continued.

Chains	<p>The falling is out of limits; considering the course of the random line; therefore I</p> <p>Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 6 and 7, with brass cap mkd.</p> <p style="text-align: center;">T 2 N R 9 W ✓ R 8 W S 1. <math display="block">\frac{3}{3} \frac{6}{7} C \quad \frac{3}{6} C</math> 1912.</p> <p>And raise a mound of stone, 2 ft. base, <math>1\frac{1}{2}</math> ft. high, E. of cor.</p> <p>Note: I destroy all marks on the cor. of secs. 1, 6, 7, and 15, which pertain to secs. 6 and 7.</p> <p>Thence I run</p> <p><math>3.89^{\circ} 40' E.</math>, on a true line bet. secs. 6 and 7.</p> <p>Over rolling hills and dense undergrowth.</p> <p>Dense.</p> <p>24.00 Road, bears N. 36° W. and S. 50° E. (County road).</p> <p>29.50 Water cultivated land, claimant unknown, bears N. and S.</p> <p>36.00 Water cultivated land, bears N. and S.</p> <p>36.56 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for closing cor., with brass cap mkd.</p> <p style="text-align: center;"><math>\frac{3}{3} \frac{6}{7}</math> 1912</p> <p>Dig pits, 18x18x12 ins., N. and E. of post, 5 ft. dist.; and raise a mound of earth, 3<math>\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, E. of cor.</p> <p>24.70 Road, bears N. and S.</p> <p>74.56 The cor. of secs. 5, 6, 7, and 8.</p> <p>Land, rolling.</p> <p>Soil, clay loam; 2nd rate.</p> <p>No timber.</p> <p>Undergrowth, sage brush and shedseales.</p> <p>No grass.</p> <p>Land covered with dense undergrowth, 71.06 ahs.</p> <p>Note: For reasons already explained I run</p>
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Sub.T.2 N., R.8 W.-Continued.

Chains	N.0°04'W., on a true line bet. secs. 5 and 6. Over rolling hills through dense undergrowth.
Desc.	
38.50	Foot of descent, 100 ft. below cor., bears N.80°E. and S.80°W. Enter valley.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor. with brass cap mkd.
	$\frac{1}{2}$ S 6   S 5 ✓ 1912.
	Dig pits, 18x18x12 ins., N. and S. of post, 5 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
50.61	Enter field of growing rye, belonging to E.E. McBride, bears E. and W.
58.40	Leave grain field, bears E. and W. above 20.00 acres in the field.
66.25	County road, bears NW and SE.
81.06	Intersect N. bdy. of Tp., 4.27 chs. West of the cor. of secs. 5, 6, 31, and 32, heretofore described. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 5 and 6, with brass cap mkd.
	T 3 N   R 8 W S 31   S 32 C C ✓ S 6   S 5 T 2 N   R 8 W 1912.
	Dig pits, 24x18x12 ins. crosswise on each line, E. and W. 3 ft. and S. of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.
	Land, level and rolling hills.
	Soil, clay and rocky in hills and clay and sandy in valley.
	No timber.
	Undergrowth, shadscales and greasewood.
	Good grass.
	Land covered with dense undergrowth, 73.27 chs.
	June 27, 1912.

Chains

Claude L. West

U.S. Transitman.

U.S. Surveyor.

## Ratification West Bdy. T.2N., R.8 W.-

June 27, 1912: At 7 h 3 m a.m., l.m.t., I set off  $40^{\circ}57'N.$ , in the lat.arc;  $23^{\circ}21'W.$ , on the decl.arc, and determine a meridian with the solar, at the cor. of Tps. 2 and 3 N., R.8 and 9 W., heretofore described.

Note: In order to account for my closings on the west bdy. of Tp., I proceed to retrace the three north miles of said bdy. as follows:

South, on retracement line bet. secs. 1 and 6.

Over level land; through ploughed land belonging to E.E. McBride..

- 14.30 Leave cultivated land and enter dense undergrowth.  
 20.40 Road, bears  $N.30^{\circ}W.$  and  $S.30^{\circ}E.$   
 21.00 Leave valley, bears  $NW$  and  $SW$ .  
 40.14 Fall 1 1/2 east of the 1 sec.cor.bet.secs. 1 and 6, which is a limestone, 8x8x4 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.  
 42.50 Top of ridge, 60 ft. above valley, bears  $N.60^{\circ}W.$  and  $S.60^{\circ}E.$

## Desc.

- 44.00 Foot of descent, 50 ft. below ridge, bears  $E.$  and  $W.$

Enter valley.

- 61.00 Wash, 20 lks. wide, 4 ft. deep course NE.  
 80.32 Fall 8 lks. east of cor. of secs. 1, 6, 7, and 12, already described in notes of sub.

The course of the north half of this mile is therefore  $S.0^{\circ}01'W.$ , 40.14 chs. the south half is  $S.0^{\circ}06'W.$ , 40.18 chs.

Land, level and mountainous.

Soil, clay; 2nd rate.

No timber.

## Retracement West bdy. T.2 N., R.8 W.-Continued.

Chains	Mountainous land, or land covered with dense undergrowth. 80.32 chs.
	South, on a retrace ment line bet. secs. 7 and 12.
	Over level land; through dense undergrowth.
29.80	Road, bears NW and SE.
37.90	Wash, 50 lks. wide, 6 ft. deep, course NE.
40.17	Fall, 4 lks. East of the 1' sec. cor., bet. secs. 7 and 12, which is a limestone, 5x6x5 ins., above ground, firmly set, and rkd. and witnessed as described by the surveyor general.
55.00	Road bears N.00°W. and S.80°E.
56.00	Leave valley, bears N.30°W. and S.30°E.
	Asc.
80.24	Fall 9 lks. E. of the cor. of secs. 7, 12, 13, and 18, heretofore described.
	The course of the mile is S.0°04'W., 80.24 chs.
	Land, level and mountainous.
	Soil, sandy and clay loam; 2nd rate.
	No timber.
	Undergrowth, sage brush and shadscales.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth.
80.24 chs.	June 27, 1912: At this cor. I set off 25°20' N., on the decl. arc; and at 6 h 3 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40°55'N., which is the proper lat. nearly.
	South on a retrace ment line bet. secs. 13 and 18.
	Over mountainous land; through dense undergrowth.
	Asc.
7.60	Top of rocky spur, 60 ft. high, bears NW and SE.

50

Retracement Post bdy.T.2 N., R.8 W.-Continued.

Chains	
	Desc.
18.50	Enter heavy timber, bears NE and SW.
19.00	Bottom of hollow, 150 ft. below spur, course NW. Asc.
30.00	Leave heavy and enter scattering timber, bears E. and W.
39.78	Fall 12 lks. East of the $\frac{1}{2}$ sec.cor. which is a limestone, 12 x10x8 ins., above ground, firmly set and mkd. and witnessed as described by the surveyor general.
49.00	Top of ridge, 250 ft. above hollow, bears N.60°W. and S.60°E.
	Desc.
63.50	Bottom of hollow, 150 ft. below ridge, course E.
	Asc.
78.00	Vertical limestone ledge, 100 ft. high, bears E. and W.
80.02	Fall 23 lks. E. of the cor. of secs. 15, 18, 19, and 24, heretofore described.
	The course of this line is therefore S.0°10'W. 80.02 chs. land mountainous.
	Soil, rocky; 3rd rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush and greasewood.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.02 chs.

June 27, 1912.

*Claude L. Hast*  
U.S. Transitman.

Meanders of T.2 N., R.8 W.

June 17, 1912; At 2 h 1 m p. m., l.m.t., I set off 40°52'N., on the lat.arc; 25°24'W., on the decl.arc; and determine a meridian with the solar, at the meander cor. of Tps. 2 N., Rs. 7 and 8 W., heretofore described.

Thence I run with meanders in sec. 25.

Along west shore of the Great Salt Lake.

Chains

Over level land; through scattering undergrowth.

N.63°55'W., 15.00 chs.

N.58°00'W., 20.00 chs.

N.44°30'W., 36.88 chs. To the meander cor. of fract. secs.

24 and 25.

Land level. Soil, sandy and clay loam; 3rd rate.

No timber. Undergrowth, scattering shadscakes.

Thence in sec. 24.

Level land; through scattering undergrowth.

North. 30.00 chs.

N.46°01'5" E. 20.00 chs.

N.34°30'W., 40.00 chs.

N.4°00'W., 3.23 chs. To the meander cor. of secs. 23 and 24.

Land, level.

Soil, clay and sandy; 3rd rate.

No timber. Undergrowth shadscakes.

June 17, 1912.

June 19, 1912: At 7 h 1 m. a.m., l.m.t., I set off 40°53'W., on the lat.arc; 23°27'N. on the decl.arc; and determine a meridian with the solar, at the meander cor. of fract. secs. 13 and 28.

Thence I run with meanders in sec. 13.

Over level land; along west shore of Great Salt Lake.

N.59°45'W., 23.82 chs. to the meander cor. of secs. 13 and 14.

Land level.

No timber.

Soil, sandy and clay loam; 3rd rate.

Thence in sec. 14.

55

Meanders of T.2 N., R.8 W.-Continued.

Chains

Over level land; along west shore of Great Salt Lake.

N.25°15'W., 35.00 chs.

N.16°30'W., 15.00 chs.

N.48°00'E., 20.00 chs.

N.63°15'E., 4.90 chs. to the meander cor. of fract. secs.

13. and 14.

Land, level.

Soil, sandy and clay; 3rd rate.

Subsoil, marl.

No timber.

Undergrowth, scattering shadscales

Thence in sec. 13.

Over level land; through scattering shadscales.

Along west shore of Great Salt Lake about 15.00 chs. from  
the water.

N.68°45'E., 43 lks. to the meander cor. of secs. 12 and 13.

Land, level.

Soil, sandy and clay loam; 3rd rate.

No timber.

Undergrowth, shadscales.

No grass.

June 19, 1912: At this cor. I set off 23°27'N., on the decl.  
arc.; and at 0 h 1 m p.m., l.m.t., I observe the sun on the  
meridian, the resulting lat. is 40°55'N., which is the proper  
lat. nearly.

Thence in sec. 12.

Over level land; through scattering shadscales.

Along west shore of Great Salt Lake.

N.50°15'E., 24.00 chs.

Meanders of T.2 N., R.8 W.-Continued.

N.55°00'W., 20.00 chs.

N.74°00'W., 2.13 chs.

West .40 chs. To meander cor. of secs. 11 and 12.  
Land level.

Soil, sandy and clay; 3rd rate about 18. ins. deep.

Subsoil, marl.

No timber.

Undergrowth, scattering shadscales.

No grass.

---

Thence in sec. 11.

Over level land; through scattering shadscales.

Along west shore of Great Salt Lake about 10 chs. from  
waters edge.

N.67°00'W., 51.60 chs.

N.51°30'W. 64.95 chs. To the meander cor. of fract. secs.  
2 and 11.

Land level.

Soil, sandy and clay loam; 2nd rate.

No timber.

Undergrowth, shadscales.

No grass.

---

Thence in sec. 2.

Over level land; through scattering undergrowth.

Along west shore of Great Salt Lake.

N.46°15'W., .56 chs. to Meander cor. of fract. secs. 2 and 3.  
Land level.

Soil, clay loam; 3rd rate.

No timber. No grass. Undergrowth, scattering shadscales.

Mesanders of T.2 N., R.8 W.-Continued.

Chains

Thence in sec. 3.

Over level land along the west shore of Great Salt Lake  
N. 6°45' W., 31.45 chs. to the mesander cor. of Tps. 2 and 3  
N., R. 8 W.,

Land level.

Soil, clay and sandy loam; 3rd rate.

No timber.

Undergrowth, a few scattering shadscales.

No grass.

June 19, 1912.

Claude L. Hest.

U.S. Transitman.

General Description.

This township is all level valley, occupying the level strip of land between the Lake Side range of mountains and Great Salt Lake, except about 4 sections in the southwest corner of the township which is in the mountains and foot hills.

The soil, is generally sandy and clay loam from 1 to 2 ft. deep and about 2nd rate. There is some salt in the soil, but from crops already growing on some of the land it is quite evident that a great deal of the land could be used successfully for dry farming. The soil next to the foot hills being the best and getting poorer as it approaches the great Salt Lake.

There is a dense growth of shadscales and greasewood all over the township with a few sage brush along the foot hills. There is a limited quantity of cedar timber along the foot hills and particularly in the southwest

Chains

corner of the township.

There is no water in the township except a well which Mr. Fleck has in sec. 17.

There is no mineral in the township.

Even Flack has a house and improvements in sec. 17, valued at about \$1000.00. He is living on his claim.

J. L. Horne has improvements in secs. 8 and 17, valued at about \$200.00.

Mr. Weed has improvements in sec. 18 valued at about \$200.00.

T. T. Larabee has improvements in sec. 7 valued at about \$200.00.

S. W. McBride has a house and improvements in sec. 6 valued at about 1000.00.

John Hammond has a house and cultivated land in sec. 23, valued at about \$300.00.

*John A. Stewart*  
U. S. Surveyor.

*Claude L. Heist*  
U. S. Transitman.

**CERTIFICATE OF ASSISTANTS.**

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,  
....., U. S. Surveyor, during the periods and in the capacities  
stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book "L" T.C.S., P.6 T

of the ..... Meridian, in the State of ..... which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

**FINAL OATH OF UNITED STATES SURVEYOR.**

I, \_\_\_\_\_, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_

For final oaths of U.S. Surveyor and Transitman see book "I" T.2 S. \_\_\_\_\_

R. G. W.

of the \_\_\_\_\_

Meridian, in the State of \_\_\_\_\_, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_\_ }



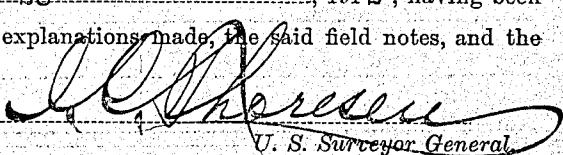
**APPROVAL.**

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, December 5, 1914.

The foregoing field notes of the survey of the Subdivision and Meanders and retracement of West Boundary of Township No. 2 North, Range No. 8 West of the Salt Lake Base and Meridian, Utah.

executed by John R. Stewart and Claude L. Heist  
under their special instructions dated May 28, 1912, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

  
U. S. Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

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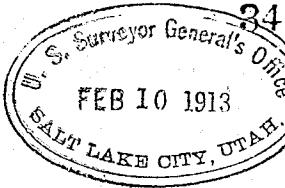
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BOOK A-400

FEB 10 1913



# FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS AND MEANDERS

OF

TOWNSHIP NO. 3 NORTH, RANGE NO. 9 WEST,

Of the Salt Lake Base and Meridian,

In the State of Utah.

EXECUTED BY

John R. Stewart and Claude L. Heist,

and Transitman  
In the capacity of U. S. Surveyor, under instructions dated May 28, 1912,  
issued by the United States Surveyor General to govern surveys included in  
Group No. 17, which were approved by the Commissioner of the General Land  
Office, June 7, 1912, pursuant to authority contained in the Act of  
Congress dated , 1911.

Survey commenced June 27, 1912.

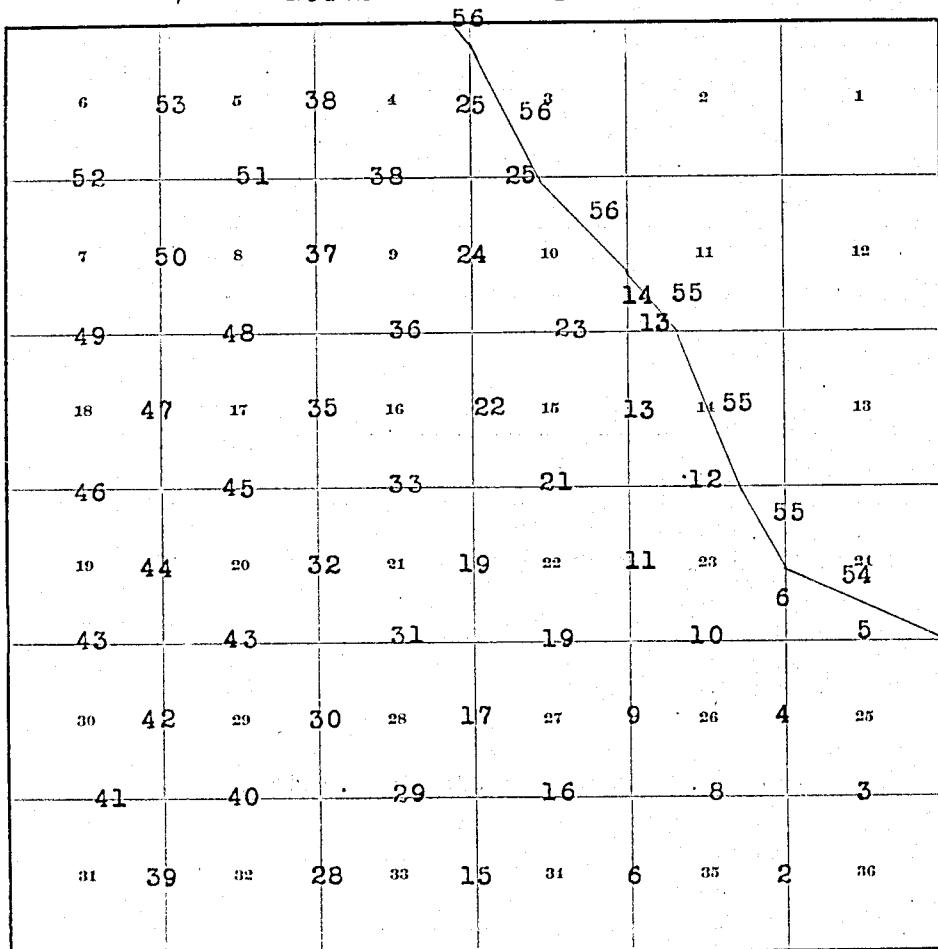
Survey completed August 19, 1912.

Subs. 41-22-13  
Meanders 5-21-87

BOOK A-400

## INDEX DIAGRAM.

Township 3 North, Range 9 West



Survey commenced June 27, 1912 and executed with the instrument described in book "A" of this survey. I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of secs. 1-2-35 and 36, previously described on the S.bdy. of the Tp., in approximate latitude,  $40^{\circ}56'30''$  N., longitude  $112^{\circ}49'29''$  W., I set off  $40^{\circ}56'30''$  N., on the lat.arc,  $23^{\circ}20'N.$ , on the decl.arc, and at 4h.3m..p.m., 1.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station.

Bethel, Wash., June 27, 1912.

June 28: At 1 h.8m., a.m., 1.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 7 a.m., 1.m.t., I lay off the azimuth of Polaris,  $1^{\circ}32'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set June 27, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8h.3m., a.m., 1.m.t., I set off  $40^{\circ}56'30''$  N., on the lat.arc,  $23^{\circ}18'N.$ , on the decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set, 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively, about  $0'21''$  west and  $0'16''$  east of the meridian established by the Polaris observations: therefore I conclude that the adjustments

## SUBDIVISIONS OF T.3 N., R.9 W.

## CHAINS

	The following observations made with the instrument used of the instrument are satisfactory.	
	The magnetic bearing of the true meridian, at 8h.30m., on the day of observation, is N. 17° 30' W., the angle thus determined gives the true bearing of the meridian, which is N. 17° 30' W. from the level and mag. decl. 17° 30' E.	
	Thence I run	
	N. 00° 01' W., bet. secs. 35 and 36.	
	Descend abruptly over mountainous land, through dense undergrowth.	
28.00	Rocky hollow, 200 ft. deep, course SE.	
	Ascend abruptly.	
32.50	Spur, projects E.	
	Descend.	
37.00	Hollow, 100 ft. deep, course NE.	
	Ascend.	
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap, marked	
	$\frac{1}{4}$ S 35   S 36	
	1912	
71.00	W. boundary of the one-half section, in gold granite, raised dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Ridge, bears NE. and SW.	
	Descend.	
71.50	Perpendicular sandstone ledge, bears NE. and SW., 30 ft. high.	
75.00	Foot of descent, leave mountainous land, bears NE. and SW. Enter gently rolling land.	
80.00	Set an iron post, 3 ft. long, 3 ins. in diam., 24 ins. in the ground, for the cor. of secs. 25-26-35 and 36, with brass cap, marked	
	1912	
82.50	S 26   S 25 from sec. 26 down, cor. of	
	S 35   S 36	
	1912	
	dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. From this cor. James Lovet's cabin, 8x10 ft., bears N. 37° W.	

## SUBDIVISIONS OF T.3 N., P.9 W.

CHAINS	18.00 chs. dist.
	Land, mountainous, and gently rolling.
	Soil, clay and gravel, 24 ins. deep, 3rd rate, on the mountainous portion, clay and sandy loam, 24 ins. deep, 2nd rate, on the rest.
	Subsoil, gravel and loose rock. 1st rate, hard.
	No timber, open ground, no shrubs, sage brush, grass.
	Undergrowth, sage brush and grass.
	Dense undergrowth on 80.00 chs. N., however, will be found in the valley, along the stream, thickets,

S.89°56'E., on a random line

Bet. secs. 25 and 36. N. of the 2nd Guide Meridian W., 9 lks. N. of the cor. 40.00 Set temp.  $\frac{1}{4}$  sec. cor. 80.22 Intersect the 2nd Guide Meridian W., 9 lks. N. of the cor. of secs. 25-30-31 and 36, heretofore described.

Thence I run

N.89°52'W., on a true line

Bet. secs. 25 and 36. I, and proceed N. about 100 ft.

Over gently rolling land, through dense undergrowth.

40.111 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cpr., with brass cap, marked

$\frac{1}{4}$  S 25

Leave plowed land, turn S.36 deg. E., and descend, through dig. pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth; 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor. 45.00 The SE. cor. of a plot of plowed ground, extends N. about 10 chs., claimed by Jas. Love of Salt Lake City.

55.35 Leave plowed land, contains about 10 acres.

60.30 Road, bears NW. and SE.

61.00 Leave gently rolling land, bears NW. and SE. Ascend abruptly over mountainous land.

73.20 Perpendicular sandstone ledge, 40 ft. high, bears N. and S. 74.00 Spur, projects N.

Descend.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS	DESCRIPTION
75.00	Perpendicular sandstone ledge, 25 ft. high, bears N. and S.
77.00	Foot of descent, leave mountainous land bears NE. and SW. enter gently rolling land.
80.22	The cor. of secs. 25-26-35 and 36. At this point the land, gently rolling and mountainous, includes Soil, clay and gravel with loose rock, 24 ins. deep, 3rd rate, on the mountainous portion, clay and sandy loam with gravel, 24 ins. deep, on the rest. Subsoil, gravel and loose rock.
	No timber.

	N. 0°01' W., bet. secs. 25 and 26.
	Over gently rolling land, through dense undergrowth.
22.75	Road, bears NW. and SE. brief path for 1/2 mi. dev.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap, marked
	$\frac{1}{4}$ S 26   S 25      1912
	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 23-24-25 and 26, with brass cap marked, bearing "T 3 N R 9 W.", and the numbers of the corners of the section, 1912.
	T 3 N R 9 W S 23   S 24 S 26   S 25      1912
	dig pits, 18 x 18 x 12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, gently rolling.
	Soil, clay and sandy loam with gravel, 24 ins. deep, 2nd rate.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

Subsoil, gravel and loose rock.

No timber.

Undergrowth, greasewood and shadscale. No grass.

Dense undergrowth on 80.00 chs.

S. 89°52'E., on a random line

Bet. secs. 24 and 25.

Set a temp.  $\frac{1}{4}$  sec.cor.

Intersect the End Guide Meridian W., 2 lks. S. of the cor. of secs. 19-24-25 and 30, heretofore described.

Thence I run

N. 89°53'W., on a true line

Bet. secs. 24 and 25.

Over barren alkali lake beds.

Leave lake beds, bears NW. and SE. Enter gently rolling land and dense undergrowth, bears NW. and SE.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked

$\frac{1}{4}$  S 24

S 25

1912

dig pits, 18x18x12 ins.; E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

The cor. of secs. 23-24-25 and 26.

Land, gently rolling and level.

Soil, barren alkali and salt beds, 4th rate, on 25.00 chs.,

clay and sandy loam with gravel, 24 ins. deep, 2nd rate, on the rest.

Subsoil, gravel and loose rock.

No timber.

Undergrowth, greasewood and shadscale. No grass.

Dense undergrowth on 80.30 chs.

## SUBDIVISIONS OF T.3 N., R.9 W.

## CHAINS

N.0°01'W., bet. secs. 23 and 24.

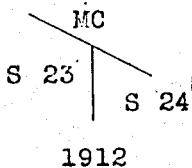
Over gently rolling land, through dense undergrowth.

24.00 Leave dense undergrowth, bears NW. and SE. Enter barren alkali lake beds.

36.00 Intersect high water mark on W. shore of Great Salt Lake, 35 chs. from water's edge, bears NW. and SE.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for meander cor. of fractional secs. 23 and 24, with brass cap, marked

T 3 N R 9 W.



dig a pit, 36x36x12 ins., 8 ft. S. of post, and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor. Land, gently rolling and level.

Soil, light sandy loam with clay and gravel, 24 ins. deep 2nd rate, on 24.00 chs., barren alkali and salt beds on the rest.

Subsoil, clay and gravel.

No timber.

Undergrowth, greasewood, shadscale. No grass.

Dense undergrowth on 24.00 chs.

June 28, 1912.

June 29: At 8h.3m., a.m., l.m.t., I set off '40°56'30"N., on the lat. arc, 23°15'N., on the decl. arc, and determine a meridian with the solar at the cor. of secs. 2-3-34 and 35, on S. bdy. of Tp. heretofore described.

Thence I run

N.0°02'W., bet. secs. 34 and 35.

Descend over mountainous land, through heavy timber.

15.30 Head of hollow, 100 ft. deep, course NE.

Ascend.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS	
20.50	Ridge,bears NE.and SW. Descend.
26.00	Hollow,100 ft.deep,course NW. Ascend.
29.00	Spur,projects W.Leave heavy timber,bears NW.and SE. Descend.Enter dense undergrowth.
33.50	Hollow,200 ft.deep,course W. Ascend.
40.00	Set an iron post,3 ft.long,1 in.in diam.,16 ins.in the ground,surrounded by a mound of earth and stone,for the $\frac{1}{4}$ sec.cor.,with brass cap,marked $\frac{1}{4} S 34   S 35$ Note:On account of natural obstacles it is impossible to set this post over 16 ins.in the ground.
41.70	Ridge,bears E.and W. Descend.
48.50	Hollow,300 ft.deep,course NW. Ascend.
54.00	Ridge,bears NW.and SE. Descend.
80.00	Set an iron post,3 ft.long,2 ins.in diam.,24 ins.in the ground,for the cor.of secs.26-27-34 and 35,with brass cap.marked
	T 3 N R 9 W S 27   S 26 S 34   S 35 1912 dig pits,18x18x12 ins.,in each sec., $5\frac{1}{2}$ ft.dist.,and raise a mound of earth,4 ft.base,2 ft.high,W.of cor. Land,mountainous. Soil,clay and sand with gravel,16 to 24 ins.deep,2nd rate. Subsoil,loose rock and gravel.

## SUBDIVISIONS OF T. 3 N., R. 9 W.

CHAINS	CALMING
	Timber, cedar. . . . . 10 ft. wide, 10 ft. deep, 10 ft. high 00.00
	Undergrowth, sage brush and grass. . . . . 10 ft. wide 00.00
	Dense undergrowth on 80.00 chs. . . . . 10 ft. wide, 10 ft. high 00.00
	. . . . . 10 ft. wide, 10 ft. high 00.00
	S. 89° 52' E., on a random line . . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
	Bet. secs. 26 and 35. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
40.00	Set temp. $\frac{1}{4}$ sec. cor. . . . . 10 ft. wide, 10 ft. high 00.00
80.46	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 25-26-35 and 36. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
	Thence I run . . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
	N. 89° 51' W., on a true line . . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
	Bet. secs. 26 and 35. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
	Over gently rolling land, through dense undergrowth. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
15.00	Wash, 50 ft. wide, 10 ft. deep, course N.E. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
15.20	Leave gently rolling land, bears N. and S. Ascend over mountainous land. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
17.80	Spur, projects N. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
	Descend. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
37.80	Hollow, 50 ft. deep, course N. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
	Ascend. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
40.23	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4}$ S 26 . . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
	dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
55.00	Ridge, bears N. and S. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
	Descend. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
75.00	Hollow, 50 ft. deep, course N. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
	Ascend. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
80.46	The cor. of secs. 26-27-34 and 35. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
	Land, gently rolling and mountainous. . . . . 10 ft. wide, 10 ft. high, 10 ft. deep, 10 ft. high 00.00
	Soil, clay and sandy loam with gravel, 24 ins. deep, 2nd

## SUBDIVISIONS OF T. 3 N., R. 9 W.

CHANS

rate, on the rolling portion; clay and gravel with loose rock, 3rd rate, on the rest.

Subsoil, gravel and loose rock.

No timber.

Undergrowth, greasewood, sage brush and grass.

Dense undergrowth on 80.46 chs.

N. 0° 02' W., bet. secs. 26 and 27. Dist. 1.00 miles.

Descend over mountainous land through dense undergrowth.

35.90

Road, bears E. and W., in bottom of hollow, 75 ft. deep, course E.

Ascend.

40.00

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$$\begin{array}{c|c} \frac{1}{4} & S 27 \\ \hline & S 26 \end{array}$$

1912

dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

77.60

Rocky spur, projects E.

Descend.

80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 22-23-26 and 27, with brass cap, marked

T 3 N R 9 W

$$\begin{array}{c|c} S 22 & S 23 \\ \hline & \end{array}$$

$$\begin{array}{c|c} & S 27 \\ \hline S 27 & S 26 \end{array}$$

1912

dig pits 18x18x12 ins., N. and S. of post, 3 ft. dist., and

raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Land, mountainous.

Soil, clay and gravel with loose rock, 24 ins. deep, 3rd rate

Subsoil, gravel and loose rock.

No timber.

Undergrowth, greasewood, shadscale, and grass.

Dense undergrowth on 80.00 chs.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

CRAVEN

	June 29: At this cor. I set off $23^{\circ}14'N.$ , on the decl. arc and at 0h.3m., p.m., l.m.t., observe the sun on the meridian the resulting lat. is $40^{\circ}58'N.$ ✓ Survey, Alaudia
	✓ redfield o
	Starting point from sec. 23-24, NW corner, NW quarter S. $89^{\circ}51'E.$ , on a random line investigation carried Bet. secs. 23 and 26.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.48	Intersect N. and S. line, 7 chs. N. of the cor. of secs. 23-24- 25 and 26. Then I run the random line NNE. back 00.33 N. $89^{\circ}48'W.$ , on a true line Bet. secs. 23 and 26. ✓ brooks
40.24	Over gently rolling land, through dense undergrowth. On Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec.cor., with brass cap, marked as on sec. 23
	$\frac{1}{4}$ S 23
44.30	Road, bears NW. and SE. as before and left, brooks
74.00	Leave gently rolling land, bears N. and S. Ascend over mountainous land, ✓ 2 MILE
80.48	The cor. of secs. 22-23-26 and 27. ✓ 00.33 chs. Land, mountainous and gently rolling. Soil, clay and sandy loam with gravel, 24 ins. deep, 2nd rate, on the rolling portion, clay with gravel and loose rock on the rest. ✓ 00.33 chs. Subsoil, clay, gravel and loose rock. Undergrowth, greasewood and shadscale. No grass. Dense undergrowth on 80.48 chs. ✓ redfield o

SUBDIVISIONS OF T. 3 N., R. 9 W.

## SUBDIVISIONS OF T.3 N., R.9 W.

## CHAINS

secs.13-14-23 and 24,

I run

S.89°48'E.,on a true line

Bet.secs.14 and 23.

Over gently rolling land through dense undergrowth.

8.00 Leave dense undergrowth,bears NW.and SE.Enter scattering undergrowth.

27.00 Leave scattering undergrowth and rolling land,enter broken,barren alkali lake beds.

40.00 Set an iron post,3 ft.long, 1in.in diam.,26 ins.in the ground,for the  $\frac{1}{4}$  sec.cor.,with brass cap,marked $\frac{1}{4}$  S 14

S 23

1912

dig pits,18x18x12 ins.,E.and W.of post,3 ft.dist.,and raise a mound of earth,3 $\frac{1}{2}$  ft.base1 $\frac{1}{2}$  ft.high,N.of cor.

60.30 Intersect W.shore of Great Salt Lake,at high water mark 30.00 chs.from water's edge bears NW.and SE.

Set an iron post,3 ft.long,1 $\frac{1}{2}$  in.in diam.,26 ins.in the ground,for the meander cor.of fractional secs.14 and 23,with brass cap,marked

T 3 N R 9 W

S 14

~~MC 1912~~,no timber,soil~~S 23~~,loose gravel,loose rock,light~~soil,gravel,rock,1912~~,no grass,soil

dig a pit,36x36x12 ins.,8 ft.W.of post, and raise a mound of earth,4 ft.base,2 ft.high,W.of cor.

Land,level and gently rolling.

Soil,clay and sandy loam with gravel,24 ins.deep,2nd rate, on the rolling portion,barren alkali and salt beds on the rest.

Subsoil,gravel and loose rock.

No timber.

Undergrowth,greasewood and shadscale.No grass.  
Dense undergrowth on 8.00 chs.

June 29, 1912

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

	Aug. 14: At 8h.5., a.m., l.m.t., I set off $40^{\circ}59'N.$ , on the lat.arc, $14^{\circ}23'N.$ , on the decl.arc, and determine a meridian with the solar at the cor.of secs. 14-15-22 and 23. Thence I run $N.0^{\circ}02'W.$ , bet. secs. 14 and 15, and 20.0 chs. Over gently rolling land, through dense undergrowth.	
5:00	Leave dense undergrowth, bears NW. and SE. Enter barren, level lake beds.	
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec.cor., with brass cap, marked	
	$\frac{1}{4}$ S 15   S 14 1912	
	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.	
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor.of secs. 10-11-14 and 15, with brass cap, marked	
	T 3 N R 9 W S 10   S 11 S 15   S 14 1912	
	dig pits, 18x18x12 ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.	
	Land, gently rolling and level.	
	Soil, light clay and sandy loam with gravel, 24 ins. deep, 2nd rate, on the rolling portion, barren salt and alkali flats, 4th rate, on the rest.	
	Subsoil, clay, gravel and loose rock.	
	No timber.	
	Undergrowth, greasewood and shadscale. No grass.	
	Dense undergrowth on 5.00 chs.	

Knowing from the contour of the lake that I will not be able to set the cor.of secs. 11-12-13 and 14, I run  $100^{\circ}48'E.$ , on a true line S,  $89^{\circ}48'E.$ , on a true line Bet. secs. 11 and 14.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

- Over level, barren alkali lake beds.
- 30.00 Intersect the W. shore of Great Salt Lake at high water mark, 30.00 chs. from waters edge, bears NW. and SE. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the meander cor. of fractional secs. 11 and 14, with brass cap, marked . . . . . Land, level.
- T 3 N R 9 W  
Bldg. cor. set in S. of cor. sec. 11, 1/4 sec. 14, bearing  
S 11 MC  
S 14
- 1912
- dig a pit, 36x36x12 ins., 8 ft. W. of post, and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- Soil, alkali and salt, with light sand, 24 ins. deep, 4th rate.
- Subsoil, marl.
- No timber.
- No undergrowth.
- 
- N.0°02'W., bet. secs. 10 and 11. Over level, barren alkali lake beds.
- 35.00 Intersect the W. shore of Great Salt Lake, 30 chs. from the waters edge, bears NW. and SE. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the meander cor. of fractional secs. 10 and 11, with brass cap, marked . . . . . Land, level.
- T 3 N R 9 W  
Bldg. cor. set in S. of cor. sec. 10, 1/4 sec. 11, bearing  
MC  
S 10 S 11
- 1912
- dig a pit, 36x36x12 ins., 8 ft. S. of post, and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.
- Land, level.

SUBDIVISIONS OF T. 3 N., R. 9 W.

CHAINS

Soil, alkali and salt, with light sand, 24 ins. deep,  
4th rate.  
Subsoil, marl.  
No timber.  
No undergrowth.

From the cor. of secs. 3, 4, 33 and 34 on S. bdy. of Tp.,  
heretofore described, I run

N.0°02'W., bet. secs. 33 and 34.

Over gently rolling land, through dense undergrowth.

8.00 Leave gently rolling land, bears NW. and SE. Ascend  
over mountainous land.

11.10 Low spur, projects NW.

Descend.

14.50 Hollow, 40 ft. deep, course SW.

Ascend. Enter scattering timber, bears NE. and SW.

22.00 Ridge, bears NE. and SW. Descend.

27.50 Road, bears E. and W.

32.25 Hollow, 50 ft. deep, course SW.

Ascend.

35.00 Ridge, bears NE. and SW.

Descend.

38.10 Hollow, 50 ft. deep, course SW.

Ascend.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 14 ins. in  
the ground, surrounded by a mound of earth and stone,  
for the  $\frac{1}{4}$  sec. cor., with brass cap marked

$\frac{1}{4}$  S 33 | S 34

1912

from which

A cedar, 5 ins. diam., bears S.16°E.,  
68 lks. dist., marked  $\frac{1}{2}$  S 34 BT.

A cedar, 10 ins. diam., bears S.7°W.,  
66 lks. dist., marked  $\frac{1}{4}$  S 33 BT.

Note: On account of natural obstacles it is impossible  
to set this post over 14 ins. in the ground.

SUBDIVISIONS OF T. 3 N., R. 9 W.

CHAINS

Aug. 14: At this cor. I set off  $14^{\circ}19'N.$ , on the decl.

arc, and at 0 h. 5 m., p.m., l.m.t., observe the sun  
on the meridian; the resulting lat. is  $40^{\circ}57'N.$ .

58.60 Rocky Ridge, bears NE. and SW.

Descend.

63.10 Head of hollow, 30 ft. deep, course SW.

Ascend.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins.  
in the ground, surrounded by a mound of earth and stone,  
for the cor. of secs. 27, 28, 33 and 34, with brass  
cap, marked

T 3 N R 9 W

S 28	S 27
S 33	S 34

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of  
cor.

Note: On account of natural obstacles it is impossible  
to set this post over 14 ins. in the ground.

Land, rolling and mountainous.

Soil, clay and sandy loam with gravel, 24 ins. deep, on  
the rolling position, clay with gravel and loose rock,  
from 14 to 24 ins. deep, 3rd rate, on the rest.

Subsoil, gravel and loose rock.

Timber, cedar.

Undergrowth, sagebrush, greasewood and grass.

Dense undergrowth on 80.00 cha.

40.00 S.  $89^{\circ}46'E.$ , on a random line

Bet. secs. 27 and 34.

Set temp.  $\frac{1}{4}$  sec. cor.

80.20 Intersect N. and S. line, 9 lks. N. of the cor. of secs.

26, 27, 34 and 35..

Thence I run

N.  $89^{\circ}42'W.$ , on a true line

Bet. secs. 27 and 34.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

- Ascend over mountainous land, through dense undergrowth.
- 9.80 Ridge, bears NE. and SW.
- Descend.
- 21.80 Hollow, 285 ft. deep, course NE.
- Ascend, gradually.
- 23.00 Road, bears NE. and SW.
- 40.10 Set an iron post, 3 ft. long, 1 in. in diam., 20 ins. in the ground, surrounded by a mound of earth and stone, for the cor. of secs. 27 and 30, 100 ft. above cor. of sec. 34, 1 sec. cor., with brass cap, marked S 34.
- 1912 Raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
- Note: On account of natural obstacles it is impossible to set this post over 20 ins. in the ground.
- 46.50 Ascend abruptly.
- 78.00 Lake Side Range, 700 ft. high, bears NW. and SE.
- Descend abruptly.
- 80.20 The cor. of secs. 27-28-33 and 34.
- Land, mountainous.
- Soil, clay loam and loose rock, 18 to 24 ins. deep, 3rd rate, Subsoil, loose rock.
- No timber.
- Undergrowth, shad scale, greasewood, and grass.
- Dense undergrowth on 80.20 chs.
- 
- N.0°02'W., bet. secs. 27 and 28.
- Ascend abruptly over mountainous land, through dense undergrowth.
- 7.40 Lake Side Range, 100 ft. above cor., bears NW. and SE.
- Descend abruptly.
- 11.10 Enter scattering timber, bears NE. and SW.
- 18.00 Head of hollow, 150 ft. deep, course E.
- Ascend.

## SUBDIVISIONS OF T. 3 N., R. 9 W.

CHAINS			
30.00	Spur, projects E. from side of ridge on west side of sec. 28. Descend.	W. 100 ft. 100' deep, right	CB. S
40.00	Set an iron post, 3 ft. long, 1 in. in diam.; 18 ins. in the ground, surrounded by a mound of earth and stone, for the $\frac{1}{4}$ sec. cor., with brass cap, marked in sec. 28, block 1912.	W. 100 ft. 100' deep, right	CB. S
51.70	Hollow, 100 ft. deep, course E.	W. 100 ft. 100' deep, right	CB. S
67.50	Rocky ridge, bears E. and W.	S 21	
70.00	Descend. S 21, ascend. S 22, pass to bottom of valley	S 22	
80.00	Set an iron post, 3 ft. long, 2 ins. in diam.; 16 ins. in the ground; surrounded by a mound of earth and stone, for the cor. of secs. 21-22-27 and 28, with brass cap, marked CB. S	S 27	
	W. 100 ft. 100' deep, right, 100' SSW, south side road		CB. S
	T 3 N R 9 W		
	S 21   S 22		
	S 28   S 27		
	1912		
	Land, mountainous.		
	Soil, clay loam with loose rock, 16 to 20 ins. deep, 3rd rate.		
	Subsoil, gravel and loose rock.		
	Timber, cedar.		
	Undergrowth, sage scale, greasewood, sage brush and grass.		
	Dense undergrowth on 80.00 chs.		
	August 14, 1912.		

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

Aug. 15: At 8h. 4.m., a.m., l.m.t., I set off  $40^{\circ}58'N.$ , on the lat.arc,  $14^{\circ}04'N.$ , on the decl.arc, and determine a meridian with the solar at the cor.of secs. 21-22-27 and 28.

Thence I run  $N.89^{\circ}42'E.$ , on a random line,

Bet. secs. 22 and 27.

40.00

Set temp.  $\frac{1}{4}$  sec.cor.

80.22

Intersect N. and S.line, 2 lks.N.of the cor.of secs. 22-23-26 and 27.

Thence I run

$N.89^{\circ}41'W.$ , on a true line

Bet. secs. 22 and 27.

Ascend over mountainous land, through dense undergrowth.

40.11

Set an iron post, 3 ft.long, 1 in.in diam., 26 ins.in the ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked

$\frac{1}{4}$  S 22

S 27

1912

raise a mound of stone, 2 ft.base 1 $\frac{1}{2}$  ft.high, N.of cor.

42.00

Ascend abruptly. Enter scattering timber, bears NE. and SW.

80.22

The cor.of secs. 21-22-27 and 28.

Land, mountainous.

Soil, clay loam and loose rock, 18 to 26 ins.deep, 3rd rate.

Subsoil, gravel and loose rock.

Timber, cedar.

Undergrowth, shadscale, greenwood, sage brush and grass.

Dense undergrowth on 0.22 chs.

---

H.  $0^{\circ}02'W.$ , bet.secs. 21 and 22.

Descend over mountainous land, through scattering timber and dense undergrowth.

.50

Hollow, 150 ft.deep, course E.

Ascend,

## SUBDIVISIONS OF T.3 N., R.9 W.

## CHAINS

11.90 Ridge, bears E. and W. . . . .  
 Descend abruptly.  
 20.00 Foot of abrupt descent, thence across wide hollow.  
 32.00 Bottom of wide hollow, 250 ft. below ridge, course E.  
 Ascend gradually.  
 40.00 Set an iron post, 3 ft. long, 1 1/2 in. in diam., 20 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$ S 21	S 22
--------------------	------

1912

raise a mound of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to set this post over 20 ins. in the ground.

57.00 Ascend abruptly.

72.40 Ridge, bears NE. and SW.

Descend. Leave scattering timber bears E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground, surrounded by mound of earth and stone for the cor. of secs. 15-16-21 and 22, with brass cap, marked

T 3 N R 9 W

S 16 | S 15

S 21 | S 22

1912

raise amount of stone, 2 ft. base, 1 1/2 ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to set this post over 18 ins. in the ground.

Land, mountainous.

Soil, clay loam and loose rock, with gravel, 18 to 24 ins. deep, 3rd rate.

Subsoil, clay, gravel and loose rock.

Timber, cedar.

Undergrowth, greasewood, sage brush and grass.

Dense undergrowth on 80.00 chs.

August 15: At this cor. I set off 14°01' N., on the decl. arc, and at Oh. 4 m., p.m., l.m.t., observe the sun on the

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

meridian, the resulting lat. is  $40^{\circ}59'N.$

S.  $89^{\circ}41'E.$ , on a random line

Bet. secs. 15 and 22.

40.00

Set temp.  $\frac{1}{4}$  sec. cor.

80.26

Intersect N. and S. line, at the cor. of secs. 14-15-22 and 23.

Thence I run

N.  $89^{\circ}41'W.$ , on a true line

Bet secs. 15 and 22.

16.75

Over gently rolling land, through dense undergrowth.

40.13

Road, bears NW. and SE.

$\frac{1}{4}$  S 15

S 22

1912

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

42.50

Road, bears NW. and SE.

45.00

Leave gently rolling land, bears NW. and SE. Ascend over mountainous land.

56.85

Spur, projects NE.

Descend.

67.15

Head of hollow, 50 ft. deep, course NE.

Ascend.

75.40

Spur, projects NE.

Descend.

80.26

The cor. of secs. 15-16-21 and 22.

Land, gently rolling and mountainous.

Soil, clay and light sandy loam with gravel, 24 ins. deep, 2nd rate, on the rolling portion, clay with gravel and loose rock, 16 to 24 ins. deep, 3rd rate, on the rest.

Subsoil, clay, gravel and loose rock.

## SUBDIVISIONS OF T.3 N., R.9 W.

## CHAINS

No timber.  
Undergrowth, greasewood, sage brush and grass.  
Dense undergrowth on 80.26 chs.

	N.0°02'W., bet. secs. 15 and 16.	00.00
	Descend over mountainous land, through dense undergrowth.	
10.00	Hollow, 200 ft. deep, course NE.	
	Ascend.	
30.20	Spur, projects NE.	
	Descend.	
39.50	Foot of descent, leave mountainous land, bears NW. and SE.	
	Enter gently rolling land.	
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec: cor.; with brass cap, marked	
	$\frac{1}{4}$ S 16   S 15 1912	
	raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.	
45.60	Road, bears NW. and SE.	
62.10	Road, bears NW. and SE.	
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 9-10-15 and 16, with brass cap; marked	

T 3 N R 9 W

S 9 | S 10

S 16 | S 15

1912

dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
Land, mountainous and rolling.  
Soil, clay loam with gravel and loose rock, 24 ins. deep, 3rd rate, on the mountainous portion, clay and sandy loam with gravel, 24 ins. deep, 2nd rate, on the rest.  
Subsoil, clay, gravel and loose rock.  
No timber.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHANS

Undergrowth, greasewood, shadscale, sage brush and grass.

Dense undergrowth on 80.00 chs.

August 15, 1912.

August 16: At 8h. 4m., a.m., l.m.t., I set off  $41^{\circ}00'N.$ , on the lat. arc,  $13^{\circ}46'N.$ , on the decl. arc, and determine a meridian with the solar at the cor. of secs. 9-10-15 and 16.

Thence I run

$S.89^{\circ}41'E.$ , on a random line

Bet. secs. 10 and 15.

40.00 Set temp.  $\frac{1}{2}$  sec. cor.

80.24 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 10-11-14 and 15.

Thence I run

$N.89^{\circ}40'W.$ , on a true line

Bet. secs. 10 and 15.

Over level, barren, alkali lake beds.

40.12 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{2}$  sec. cor., with brass cap, marked

$\frac{1}{2} S 10$

S 15

1912

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base;  $1\frac{1}{2}$  ft. high, N. of cor.

55.00 Enter dense undergrowth, bears N. and S.

76.60 Road, bears N. and S.

80.24 The cor. of secs. 9-10-15 and 16.

Land, level and rolling.

Soil, alkali and salt beds, 24 ins. deep, 4th rate, on 55.00 chs.; clay and sandy loam with gravel, 24 ins. deep, 2nd rate on the rest.

Subsoil, clay and gravel.

No timber.

Undergrowth, greasewood and shadscale.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHANS

Dense undergrowth on 25.24 chs.

40.00

N.0°02'W., bet. secs. 9 and 10.

Over gently rolling land, through dense undergrowth.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked $\frac{1}{4}$  S 9 | S 10

1912

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 3-4-9 and 10, with brass cap, marked

T 3 N R 9 W

S 4 | S 3

S 9 | S 10

1912

raise amount of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Land, gently rolling.

Soil, clay and light sandy loam with gravel, 24 ins. deep 2nd rate.

Subsoil, clay and gravel.

No timber. No water, and no road, with all undergrowth, greasewood and shadscale. No grass.

Dense undergrowth, on 80.00 chs.

August 16: At this cor. I set off 13°42'N., on the decl. arc, and at Oh. 4m., p.m., 1.m.t., observe the sun on the meridian, the resulting lat. is 41°01'N.

Having previously run the line bet. secs. 10 and 11, and therefore knowing that I am unable to set the cor. of secs. 2-3-10 and 11,

I run

## SUBDIVISIONS OF T.3 N., R.9 W.

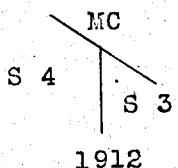
CHAINS	
	S.89°40'E., on a true line
1.00	Bet. secs. 3 and 10.
6.70	Over gently rolling land through dense undergrowth. Road, bears NW. and SE.
29.70	Leave dense undergrowth, bears NW. and SE. Enter barren level, alkali lake beds.
37.00	Intersect the W. shore of Great Salt Lake, at high water mark, 40.00 chs. from waters edge, bears NW. and SE. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the meander cor. of fractional secs. 3 and 10, with brass cap, marked
	T 3 N R 9 W
	S 3      MC
	S 10
	1912
	dig a pit, 36x36x12 ins., 8 ft. W. of cor., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level and gently rolling. Soil, clay and light sandy loam with gravel, 24 ins. deep, 2nd rate, on the rolling portion, salt and alkali, 24 ins. deep, on the rest. Subsoil, clay and gravel. No timber. Undergrowth, greasewood and shadscale. No grass. Dense undergrowth on      29.70 chs.
	Having previously run the N. bdy. of the Tp. and therefore know that I am unable to set the cor. of secs 3-4-33 and 34. Therefore I run N. 0°02' W., bet. secs. 3 and 4, on a true line Over gently rolling land through dense undergrowth.
15.90	Road, bears NW. and SE.
40.00	Set an iron post, 3 ft. long, 1 in. on diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap, marked S 3      S 4      1912

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

- dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Leave dense undergrowth, bears NW. and SE. Enter level, barren alkali lake beds.
- 44.80 Intersect W. shore of Great Salt Lake, at high water mark, 73.45 40.00 chs., from waters edge, bears NW. and SE. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the meander cor. of fractional secs. 3 and 4, with brass cap, marked

T 3 N R 9 W., 1912, one section of sec. 3



dig a pit, 36x36x12 ins. 8 ft. S. of post, and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor. Land, level and rolling. Soil, clay and light sandy loam with gravel, 24 ins. deep 2nd rate, on the rolling portion, light sand, alkali and salt on the rest. Subsoil, clay and gravel.

No timber.

Undergrowth, greasewood and shadscale. No grass.

Dense undergrowth on 44.80 chs.

August 16, 1912.

*John D. Stewart*  
U.S. Surveyor.

Survey commenced August 13, 1912 and executed with the instrument described in survey of Ebdy, T.1 S.R.10 W. I examine the adjustments of the transit, and correct the level and collimation errors: then, to test the

## SUBDIVISIONS OF T.3 N., R.9 W.

CHANS

solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of secs. 4-5-32 and 33, previously described on the S. bdy. of the Tp., in approximate latitude,  $40^{\circ}56'30''N.$ , longitude  $112^{\circ}52'56''W.$ , I set off  $40^{\circ}56'30''N.$ , on the lat. arc,  $14^{\circ}35'N.$ , on the decl. arc, and at 4h. 5m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of my station.

At 10h. 04m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

August 13, 1912.

August 14: At 7a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}32'$  to the west, and mark the meridian thus determined by cutting a small groove in the stone set Aug. 13, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8h. 5m., a.m., l.m.t., I set off  $40^{\circ}56'30''N.$ , on the lat. arc,  $14^{\circ}23'N.$ , on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set, 5 chs. N. of my station: this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively, about  $0'21''$  west and  $0'16''$  east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h. 30m., a.m. is  $N.17^{\circ}30'W.$ , the angle thus determined gives the mag.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

decl. 17° 30' E.

Thence I run

N. 0° 03' W., bet. secs. 32 and 33.

Over gently rolling land in Puddle Valley, through dense undergrowth.

- 25.60 Wash, 12 lks. wide, 3 ft. deep, course NW.  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

 $\frac{1}{4}$  S 32 S 33

1912

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

- 43.20 Road, bears NW. and SE.  
56.80 Wash, 10 lks. wide, 3 ft. deep, course NW.  
63.30 Leave gently rolling land in Puddle Valley, bears NW. and SE. Ascend over rough mountainous land.  
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 16 ins. in the ground, surrounded by a mound of earth and stone, for the cor. of secs. 28-29-32 and 33, with brass cap, marked

T 3 N R 9 W

S 29 S 28

S 32 S 33

1912

raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to set this post over 16 ins. in the ground.

Land, gently rolling and mountainous.

Soil, clay and light sandy loam with gravel, 24 ins. deep.

2nd rate, on the rolling portion, clay with loose rock, 16 to 20 ins. deep, 3rd rate, on the rest.

Subsoil, clay and loose rock.

No timber.

Undergrowth, shadscales and sage brush. Good grass.

Dense undergrowth, on 80.00 chs.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS	
	S. $89^{\circ}56'E.$ , on a random line
	Bet. secs. 28 and 33.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
60;28	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 27-28-33 and 34. Thence I run N. $89^{\circ}52'W.$ , on a true line Bet. secs. 28 and 33. Descend abruptly over mountainous land, through dense undergrowth and scattering timber.
40.14	The point for the $\frac{1}{4}$ sec.cor., falls in the bottom of a hollow, 500 ft. deep, course SW. Cor. not set. Ascend.
40.50	Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, surrounded by a mound of earth and stone, for witness cor. to $\frac{1}{4}$ sec.cor., with brass cap, marked
	T 3 N R 9 W $\frac{1}{4}$ WC S 28 S 33
	1912
	Raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
	Note: On account of natural obstacles it is impossible to set this post over 16 ins. in the ground.
73.00	Rocky ridge, bears N. and S. Descend.
80.28	The cor. of secs. 28-29-32 and 33. Land, mountainous. Soil, clay and loose rock, 16 ins. deep, 3rd rate. Subsoil, loose rock. No timber. Undergrowth, sage brush and grass. Dense undergrowth on 80.28 chs.
	August 14: At this cor. I set off $14^{\circ}19'N.$ , on the decl. arc, and at 10.5 m., p.m.; 1.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ}57'N.$ .

## SUBDIVISIONS OF T.3 N., R.9 W.

## CHAINS

N.0°03'W., bet. secs. 28 and 29

Ascend over rough mountainous land, through dense under-growth.

6.00 Spur, projects W.

Descend.

21.90 Hollow, 50 ft. deep, course SW.

Ascend.

32.47 Spur, projects SW.

Descend.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked. $\frac{1}{4}$  S 29 | S 28

1912

raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to set this post over 16 ins. in the ground.

46.50 Hollow, 100 ft. deep, course SW.

Ascend.

55.40 Spur, projects SW.

Descend.

63.70 Hollow, 100 ft. deep, course SW.

Ascend.

60.00 Set an iron post, 3 ft. long, 2 ins. in diam., 20 ins. in the ground, surrounded by a mound of earth and stone, for the cor. of secs. 20-21-28 and 29, with brass cap, marked.

T.3 N R.9 W.

S 20 | S 21

S 29 | S 28

1912

raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to set this post over 20 ins. in the ground.

Land, mountainous.

Soil, clay and gravel, with loose rock, 20 ins. deep, 3rd

rate.

SUBDIVISIONS OF T. 3 N., R. 9 W.

### **Subsoil, clay and loessic rock.**

## No timber.

## Undergrowth, sage brush and grass

Dense undergrowth on 80-90 cha.

• B R 501 August 14, 1912.

August 15: At 8h.4m., a.m., l.m.t., I set off 40°58'N., on  
the lat.arc, 14°04'N., on the decl.arc, and determine a  
meridian with the solar at the cor.of sec.s. 20-21-28 and  
29.

DEFENSE & TUR

S. 89°52' E., on a random line

Bat. accs. 21 and 26.

Set temp. + acc. cor.

Intersect N. and S. line, 5 lks. N. of the cor. of secs. 21-22-  
27 and 28.

## Science I run

11.  $68^{\circ}50'W.$ , on a true line

Net. accu. 21 and 28.

Ascend abruptly over rough mountainous land, through dense undergrowth, and scattering timber.

Lake Side Range, 800 ft. high, bears NW. and SE.

Descend abruptly. Leave scattering timber, bears NW. and SE.

Hollow, 600 ft. deep, course SW.

**Ascend abruptly.**

Set an iron post, 3 ft. long, 1 in. in diam., 12 ins. in the ground, surrounded by a mound of earth and stone, for the sec. cor., with brass cap., marked

1821

82

**1912**

Note: On account of natural obstacles it is impossible  
to add their location along in the enclosed.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS	
55.00	Rocky ridge, bears NE. and SW. Descend abruptly.
66.70	Rocky hollow, 500 ft. deep, course SW. Ascend abruptly.
76.50	Spur, projects S. Descend.
80.34	The cor. of secs. 20-21-28 and 29. Land, mountainous. Soil, clay and gravel, with loose rock, 18 to 24 ins. deep, 3rd rate. Subsoil, clay and gravel. Timber, cedar. Undergrowth, sage brush and grass. Dense undergrowth on 80.34 chs.

N. 0° 03' W., bet. secs. 20 and 21.

Ascend over rough mountainous land, through dense under-growth.

9.50	Rocky spur, projects W. Descend.
19.10	Wash, 2 chs. wide, 4 ft. deep, in bottom of hollow, 40 ft. deep, course SW. Ascend.
22.80	Rocky spur, projects SW. Descend.
31.40	Hollow, 50 ft. deep, course SW. Ascend.
34.90	East end of a perpendicular sandstone ledge, 50 ft. high, bears NE.
40.00	Set an iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, surrounded by a mound of earth and stone, for the $\frac{1}{4}$ sec. cor., with brass cap, marked

± S 20 | S 21

1912

raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS					
	Note: On account of natural obstacles it is impossible to set this post over 16 ins. in the ground.				
41.68	Spur, projects SW. Descend.				
60.75	Hollow, 75 ft. deep, course NW. Ascend.				
72.40	Lake Side Range, 200 ft. high, bears NW. and SE. Descend.				
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 14 ins. in the ground, surrounded by a mound of earth and stone, for the cor. of secs. 16-17-20 and 21, with brass cap, marked  T 3 N R 9 W <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>S 17</td> <td>S 16</td> </tr> <tr> <td>S 20</td> <td>S 21</td> </tr> </table> 1912 raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Note: On account of natural obstacles it is impossible to set this post over 14 ins. in the ground. Land, mountainous. Soil, clay with gravel and loose rock, 14 to 24 ins. deep, 3rd rate. Subsoil, gravel and loose rock. No timber. Undergrowth, sage brush and grass. Dense undergrowth on 80.00' chs. August 15: At this cor. I set off 14° 01' N., on the decl. arc, and at 0h:4m. p.m., 1.m.t.; observe the sun on the meridian, the resulting lat. is 40° 59' N.	S 17	S 16	S 20	S 21
S 17	S 16				
S 20	S 21				
40.00	S. 89° 50' E., on a random line, Bet. secs. 16 and 21. Set temp. $\frac{1}{4}$ sec. cor.				
80.38	Intersect N. and S. line, 5 1ks. S. of the cor. of secs. 15-16-21 and 22. Thence I run				

## SUBDIVISIONS OF T. 3 N., R. 9 W.

CHAINS

N.  $89^{\circ}52'W.$ , on a true line

Bet. secs. 16 and 21.

Descend over mountainous land through dense undergrowth.

5.00 Hollow, 100 ft. deep, course NE.

Ascend.

8.40 Ridge, bears NE. and SW.

Descend.

13.20 Hollow, 50 ft. deep, course NE.

Ascend.

31.80 Spur, projects NE.

Descend.

36.40 Hollow, 60 ft. deep, course NE.

Ascend.

40.19 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked $\frac{1}{4}$  S 16

S 21

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

42.65 Perpendicular sandstone ledge, 50 ft. high, bears NW. and SE.

52.20 Perpendicular sandstone ledge, 75 ft. high, bears same.

53.90 Ridge, bears NE. and SW.

Descend.

70.90 Hollow, 100 ft. deep, course NE.

Ascend.

80.38 The cor. of secs. 16-17-20 and 21.

Land, mountainous.

Soil, clay and gravel, with loose rock, 16 to 26 ins. deep,

3rd rate.

Subsoil, gravel and loose rock.

No timber.

Undergrowth, sage brush and grass.

Dense undergrowth on 80.38 chs.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

M. 0°03'W., bet. secs. 16 and 17.

Descend over mountainous land, through dense undergrowth.

23.90 Hollow, 100 ft. deep, course NE.

Ascend.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked $\frac{1}{4}$  S 17 | S 16

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to set this post over 18 ins. in the ground.

44.40 Spur, projects NE.

Descend.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground, surrounded by a mound of earth and stone, for the cor. of secs. 8-9-16 and 17, with brass cap, marked

T 3 N R 9 W

S 8 | S 9

S 17 | S 16

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to set this post over 18 ins. in the ground.

Land, mountainous.

Soil, clay with gravel and loose rock, 16 to 20 ins. deep, 3rd rate.

Subsoil, gravel and loose rock.

No timber.

Undergrowth, shadscale, sage brush and grass.

Dense undergrowth on 80.00 chs.

August 15, 1912.

GEAERS

August 16: At 5h.45., a.m., I set off 41°00' N.,  
on the lat.arc, 13°45' N., or the decl.arc, and determine  
a meridian with the solar at the cor.of secos.8-9-16 and  
17.

Thence I run . . . . . S. 89°52' E., on a random line  
Bet.sec.9 and 16. 11,000 ft. above sea level, 200.000  
40.00 Set temp. & sec.cor.

50.36 Intersect N. and S.line, 5 lks.S. of the cor.of secos.9-10-  
15 and 16.  
Thence I run . . . . . S. 89°54' E., due to finding a valve  
N. 89°54' W., on a true line  
Bet.sec.9 and 16.

Over gently rolling land, through dense undergrowth.

23.40 Road,bears NW.and SE.  
40.18 Set an iron post, 3 ft.long, 1 in.in diam., 26 ins.in the  
ground,for the  $\frac{1}{2}$  sec.cor.,with brass cap,marked  
S 16

$\frac{1}{2}$  S 9

S 16

1912

Dig pits, 18x18x12 ins., E. and W.of post, 3 ft.dist., and  
raise a mound of earth, 3 $\frac{1}{2}$  ft.base, 1 $\frac{1}{2}$  ft.high,N.of cor.

64.10 Road,bears NW.and SE.  
75.00 Leave gently rolling land bears NW.and SE.Ascend over  
mountainous land.

80.36 The cor.of secos.8-9-16 and 17.  
Land,rolling and mountainous.  
Soil,clay and light sandy loam with gravel, 26 ins.deep,  
2nd rate, on the rolling portion, clay with gravel and loose  
rock, 24 ins.deep, 3rd rate, on the rest.  
Subsoil,gravel and loose rock.

No timber.

Undergrowth,greenwood,sage brush and grass.

Dense undergrowth, on 80.36 elev.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

N.  $0^{\circ}03'$  W., bet. secs. 8 and 9.

Descend over mountainous land, through dense undergrowth.

Descend abruptly.

Foot of abrupt descent, leave mountainous land, bears

NW. and SE. Enter gently rolling land.

Road, bears NW. and SE.

Wash, 1 ch. wide, 10 ft. deep, course NE.

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$	S 8	S 9
---------------	-----	-----

  
 1912
dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

44.50

Road, bears NW. and SE.

80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 4-5-8 and 9, with brass cap, marked

T 3 N R 9 W.			
S 5	S 4		

S 8	S 9
-----	-----

1912

dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous and rolling.

Soil, clay with gravel and loose rock, 24 ins. deep, 3rd rate, on the mountainous portion, clay with light sandy loam and gravel, 26 ins. deep, 2nd rate, on the rest.

Subsoil, gravel and loose rock.

No timber.

Undergrowth, greasewood, shadscale, sage brush and grass.

Dense undergrowth on 80.00 chs.

August 16: At this cor. I set off  $13^{\circ}42'N.$ , on the decl. arc, and at 0h.4m., 1.m.t, observe the sun on the meridian, the resulting lat, is  $41^{\circ}01'N.$

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

S. $89^{\circ}54'E.$ , on a random line,  
 Bet. secs. 4 and 9.  
 Set temp.  $\frac{1}{4}$  sec.cor.  
 40.00 Intersect N. and S. line, 7 lks.S. of the cor. of secs. 3-4-  
 80.38 9 and 10.  
 Thence I run  
 N. $89^{\circ}57'W.$ , on a true line.  
 Bet. secs. 4 and 9.  
 Over gently rolling land through dense undergrowth.  
 40.19 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the  
 ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked

 $\frac{1}{4}$  S 4

S 9

1912

at the corner of sec. 4, and N. and S. line, 7 lks. S. of cor. of secs. 4-5-8 and 9, and N. and S. line, 7 lks. S. of cor. of secs. 3-4-9 and 10, with a post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, and dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

73.90 Road, bears N. and S.

80.38 The cor. of secs. 4-5-8 and 9.

Land, gently rolling.

Soil, clay with light sandy loam and gravel, 26 ins. deep.

2nd rate.

Subsoil, gravel and loose rock.

No timber.

Undergrowth, greasewood and grass.

Dense undergrowth on 80.38 chs.

N. $0^{\circ}03'W.$ , on a random line

Bet. secs. 4 and 5.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

79.85 Intersect the N. bdy. of the Tp. 5 lks.E. of the cor. of secs. 4-5-32 and 33. heretofore described.

Thence I run

S. $0^{\circ}05'E.$ , on a true line

Bet. secs. 4 and 5.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS	Over gently rolling land, through dense undergrowth.
39.85	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec.cor., with brass cap, marked $\frac{1}{4} S 5   S 4$ 1912 dig pits, 18x18x12 ins., N. and S. of post., 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
79.85	The cor. of secs. 4-5-8 and 9. Land, gently rolling. Soil, clay and light sandy loam with gravel, 26 ins. deep, 2nd rate. Subsoil, clay and gravel. No timber. Undergrowth, greasewood, sage brush and grass. Dense undergrowth on 79.85 chs.
	August 16, 1912.
40.00	August 17: At 8h. 4m., a.m., l.m.t., I set off 40°56'30"N., on the lat.arc, 13°26'N., on the decl.arc, and determine a meridian with the solar at the cor. of secs. 5-6-31 and 32, on S. bdy. of Tp. heretofore described. Thence I run N. 0°04'W., bet. secs. 31 and 32. Over gently rolling land, in Puddle Valley, through dense undergrowth. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec.cor., with brass cap, marked $\frac{1}{4} S 31   S 32$ 1912 dig pits, 18x18x12 ins., N. and S. of post., 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
80.00	Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 29-30-31 and 32, with brass cap, marked

SUBDIVISIONS OF T. 3 N., R. 9 W.

CHAINS	
	T 3 N R 9 W S 30   S 29 S 31   S 32
	1912
	dig pits, 18x18x12 ins., in each sec., 5½ ft. dist., and raise a mound of earth, 4½ ft. base, 1½ ft. high, W. of cor.
	Land, gently, rolling. Soil, clay and sandy loam, 24 ins. deep, 2nd rate. Subsoil, clay and gravel. No timber. Undergrowth, shadscales. No grass. Dense undergrowth, on 80:00 chs. slope, descending.
	S. 89° 56' E., on a random line between timber and
	Bet. secs. 29 and 32.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.58	Intersect N. and S. line, 4 lks. N. of the cor. of secs. 28-29-32 and 33.
	Thence I run N. 89° 50' W., on a true line Bet. secs. 29 and 32.
	Descend over mountainous land, through dense undergrowth.
2.20	Foot of descent, leave mountainous land, bears NW. and SE.
	Enter gently rolling land in Puddle Valley.
14.70	Road, bears NW. and SE.
15.20	Wash, 7 lks. wide, 18 ins. deep, course SW.
40.19	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap, marked
	+ S 29
	S. 32 M. and R. 31, stig. 1912
	dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.

SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

80.38

The cor. of secs. 29-30-31 and 32.

Land, gently rolling and mountainous.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate, on the rolling portion, clay with gravel and loose rock, 24 ins. deep, 3rd rate, on the rest.

Subsoil, clay and gravel.

No timber.

Undergrowth, shadscales and grass.

Dense undergrowth on 80.38 chs.

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40.00

N.  $89^{\circ}56'W.$ , on a random line

Bet. secs. 30 and 31.

Set, temp.  $\frac{1}{4}$  sec. cor.

79.33

Intersect the W. bdy. of the Tp. 5 lks. S. of the cor. of secs. 25-30-31 and 36, heretofore described.

Thence I run

S.  $89^{\circ}54'E.$ , on a true line

Bet. secs. 30 and 31.

Over gently rolling land through dense undergrowth.

39.33

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor. with brass cap, marked

$\frac{1}{4} S 30$

---

S 31

1912

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist. and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

79.33

The cor. of secs. 29-30-31 and 32.

Land, gently rolling.

Soil, clay and sandy loam with gravel, 24 ins. deep, 2nd rate.

Subsoil, clay and gravel.

No timber.

Undergrowth, shadscales. No grass.

Dense undergrowth on 79.33 chs.

## SUBDIVISIONS OF T.3 N., R.9 W.

## CHAINS

August 17: At this cor. I set off  $13^{\circ}23'N.$ , on the decl. arc, and at 0H.4m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $40^{\circ}57'N.$

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked

$\frac{1}{4}$ S 30	S 29
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1912

dig pits,  $18 \times 18 \times 12$  ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 19-20-29 and 30, with brass cap, marked

T 3 N R 9 W.

S 19	S 20
------	------

S 30	S 29
------	------

1912

dig pits,  $18 \times 18 \times 12$  ins. in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, gently rolling.

Soil, clay and sandy loam with gravel, 24 ins. deep, 2nd rate.

Subsoil, clay and gravel.

No timber.

Undergrowth, shadscales and grass.

Dense undergrowth on 80.00 chs.

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S.  $89^{\circ}50'E.$ , on a random line

Bet. secs. 20 and 29.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.32 Intersect N. and S. line, 2 lbs. S. of the cor. of secs.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

20-21-28 and 29.

Thence I run N. 89° 51' W., on a true line.

Bet. secs. 20 and 29.

Descend over mountainous land, through dense undergrowth.

28.30 Foot of descent, leave mountainous land, bears N. and S.

Enter gently rolling land in Puddle Valley. Wash, 15 lks. wide, 3 ft. deep, course SW.

40.16 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked $\frac{1}{4}$  S. 20

S 29

1912

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

41.78 Wash, 20 lks. wide, 3 ft. deep, course SW.

53.80 Road, bears NW. and SE.

80.32 The cor. of secs. 19-20-29 and 30.

Land, mountainous and gently rolling.

Soil, clay and sandy loam with gravel, 24 ins. deep, 2nd rate, on the rolling portion, clay with gravel and loose rock on the rest.

Subsoil, clay and gravel.

No timber.

Undergrowth, shadscales. No grass.

Dense undergrowth on 80.32 chs.

N. 89° 54' W., on a random line.

Bet. secs. 19 and 30.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.22 Intersect the W. bdy. of the Tp. 2 lks. N. of the cor. of secs. 19-24-25 and 30, heretofore described.

Thence I run

S. 89° 55' E., on a true line.

Bet. secs. 19 and 30.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

- Over gently rolling land, through dense undergrowth.
- Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked,
- $\frac{1}{4}$  S 19
- 
- Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked,
- S 30
- Subsoil, clay and gravel, 24 ins. deep, 2nd rate.
- Subsoil, clay and gravel, 24 ins. deep, 2nd rate.
- No timber. L. ord. 100 ft., distance to timberline 100 ft.
- Undergrowth, shadscales and grass.
- Dense undergrowth on 79.22 chs.
- August 17, 1912.
- 
- August 19: At 8h.4m., a.m., l.m.t., I set off  $40^{\circ}58'N.$ , on the lat.arc,  $12^{\circ}47'W.$ , on the decl.arc, and determine a meridian with the solar at the cor.of secs.19-20-29- and 30.
- Thence I run N. $0^{\circ}04'W.$ , bet, secs.19 and 20.
- Over gently rolling land through dense undergrowth.
- Sand ridge, 20 ft. high, bears E. and W.
- Road, bears NW. and SE.
- Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked
- $\frac{1}{4}$  S 19 | S 20
- 
- 1912
- dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and

## SUBDIVISIONS OF T. 3 N., R. 9 W.

CHAINS

- raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 78.50 Wash., 20 lks. wide, 4 ft. deep, course NW.  
 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the  
     ground, for the cor. of secs. 17-18-19 and 20, with brass  
     cap, marked

T 3 N R 9 W

S 18	S 17
S 19	S 20

1912

dig pits,  $18 \times 18 \times 12$  ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and  
     raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
     Land, gently rolling.  
     Soil, clay and sandy loam with gravel, 24 to 36 ins. deep,  
     2nd rate.  
     Subsoil, clay and gravel.  
     No timber.  
     Undergrowth, greasewood and shadscales. No grass.  
     Dense undergrowth on 80.00 chs.

Claude L. Skot

U.S. Transitman.

August 19: At 8h.4m., a.m., l.m.t., I set off  $40^{\circ}59'N.$ , on  
     the lat. arc,  $12^{\circ}47'N.$ , on the decl. arc, and determine a  
     meridian with the solar at the cor. of secs. 17-18-19 and  
     20.

Thence I run

S.  $89^{\circ}51'E.$ , on a random line

- Bet. secs. 17 and 20. n. 1000 ft., 100 ft. E. of cor.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.26 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 16-17-  
     20 and 21.  
     Thence I run  
     N.  $89^{\circ}54'W.$ , on a true line  
     Bet. secs. 17 and 20.

## SUBDIVISIONS OF T. 3 N., R. 9 W.

## CHAINS

Ascend over mountainous land, through dense undergrowth.

6.65 Lake Side Range, 50 ft. above cor., bears NW. and SE.

Descend abruptly.

40.13 Set a iron post, 3 ft. long, 1 in. in diam., 16 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{2}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 17

---

S 20

1912. . . . . raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

Note: On account of natural obstacles it is impossible to set this post over 16 ins. in the ground.

44.20 Foot of abrupt descent, 500 ft. below ridge, leave mountainous land, bears NW. and SE. Enter gently rolling land.

51.15 Wash, 30 lks. wide, 2 ft. deep, course NW.

65.68 Road, bears NW. and SE.

71.90 Wash, 30 lks. wide, 4 ft. deep, course SW.

80.26 The cor. of secs. 17-18-19 and 20.

Land, gently rolling and mountainous.

Soil, clay and sandy loam with gravel, 24 ins. deep, 2nd rate, on the rolling portion, clay with gravel and loose rock on the rest.

Subsoil, gravel and loose rock.

No timber.

Undergrowth, greasewood and grass.

Dense undergrowth on 80.26 chs.

N. 89° 55' W., on a random line.

Bet. secs. 18 and 19.

40.00 Set temp.  $\frac{1}{4}$  sec. cor. Post.

79.02 Intersect the W. bdy. of the Tp. 2 lks. N. of the cor. of secs. 13-18-19 and 24, heretofore described.

Thence I run

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

S.  $89^{\circ}56' E.$ , on a true line

Bet. secs. 18 and 19.

Over gently rolling land through dense undergrowth.

39.08 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked $\frac{1}{4} S 18$ 

S 19

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked  
1912  
dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

62.70 Road, bears NW. and SE.

75.30 Wash, 15 lks. wide, 4 ft. deep, course NW.

79.08 The cor. of secs. 17-18-19 and 20.

Land, gently rolling.

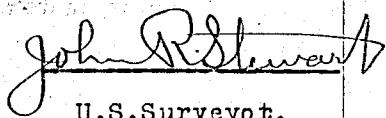
Soil, clay and sandy loam with gravel, 24 ins. deep, 2nd

rate. 1 in. 3 ft. thick, 3 ft. 6 in. high, 3 ft. 6 in. wide.

Subsoil, clay and gravel. no stratified layers, 1 ft. thick.

No. timber, live oaks, cypress, cedar, magnolia, etc.

Undergrowth, shadscales. No grass.

August 19: At this cor. I set off  $12^{\circ}44' N.$ , on the decl. arc, and at Oh. 4 m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $40^{\circ}59' N.$ .


U.S. Surveyor.

N.  $0^{\circ}04' W.$ , bet. secs. 17 and 18.

Over gently rolling land through dense undergrowth.

12.35 Road, bears NW. and SE.

20.00 Leave gently rolling land in Puddle Valley, bears NW. and SE. Ascend over mountainous land.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

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1912

dig pits, 18x18x12 ins., N. and S. of post, 3 Ft. dist., and raise, a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

54.90 Spur, projects NW. dir., 100 ft. long, 10 ft. high, brown. Descend.

75.85 Hollow, 100 ft. deep, course W. Ascend.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 7-8-17 and 18, with brass cap, marked

T 3 N R 9 W . . . no shrub, flat, open, dry, on. 20

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1912

dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, gently rolling and mountainous. Soil, clay and sandy loam with gravel, 24 ins. deep, 2nd rate, on the rolling portion, clay with gravel and loose rock on the rest.

Subsoil, clay, gravel and loose rock. No timber. No timber.

Undergrowth, greasewood, sage brush and grass.

Dense undergrowth on 80.00 chs.

Claude L. Hast.

U.S. Transitman.

.89°54'E. base, 100 ft. deep, dry, W. 100°.

On a random line, between the prairie and the river.

S.89°54'E., on a random line, dry, 100 ft. deep, dry, 100.00

Bet. secs. 8 and 17. on a random line, dry, 100.00

40.00 Set temp.  $\frac{1}{4}$  sec. cor. on a random line, dry, 100.00

80.20 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 8-9-16 and 17.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

Thence I run  
 N.89°56'W., on a true line  
 Bet. secs. 8 and 17.  
 Ascend over mountainous land, through dense undergrowth.  
 15.50 Spur, projects N.  
 Descend abruptly.

24.70 Enter scattering timber, bears NE. and SW.

33.50 Hollow, 250 ft. deep, course NW.

Ascend.

36.40 Leave scattering timber, bears NE. and SW.

40.10 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

4 S 8

S 17

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

57.00 Lake Side Range, 250 ft. high, bears NW. and SE.  
 Descend.

80.20 The cor. of secs. 7-8-17 and 18.

Land, mountainous.

Soil, clay and gravel with loose rock, 24 ins. deep, 3rd rate.

Subsoil, gravel and loose rock.

Timber, cedars.

Undergrowth, sage brush and grass.

Dense undergrowth on 80.20 chs.

N.89°56'W., on a random line,

Bet. secs. 7 and 18.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 78.82 Intersect the W. bdy. of the Tp. 5 lks. N. of the cor. of secs. 7-12-13 and 18. heretofore described.

Thence I run

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

S. 89° 58' E., on a true line

Bet. secs. 7 and 18.

Over gently rolling land, through dense undergrowth.

4.10 Wash, 10 lks. wide, 18 ins. deep, course S.

38.82 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

S 18

dig pits, 18x18x12 ins., E. and W. off post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

47.05 Road, bears NW. and SE.

64.75 Road, bears NW. and SE.

67.05 Leave gently rolling land in Puddle Valley, bears N. and S. Ascend over mountainous land.

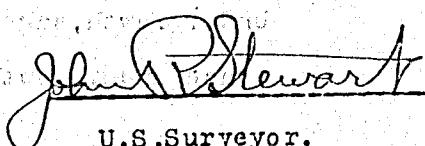
78.82 The cor. of secs. 7-8-17 and 18. Land, gently rolling and mountainous.

Soil, clay with light sandy loam and gravel, 24 ins. deep, 2nd rate, on the rolling portion, clay with gravel and loose rock, 24 ins. deep, 2nd rate, on the rest.

Subsoil, gravel and loose rock. No timber.

Undergrowth, shadscales, sage brush and grass.

Dense undergrowth on 78.82 chs.


  
U.S. Surveyor.

N. 0° 04' W., bet. secs. 7 and 8.

Ascend over mountainous land through dense undergrowth.

32.00 Lake Side Range, 300 ft. high, bears NW. and SE.

Descend.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 18 ins. in the

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked

+ S 7	S 8
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1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to set this post over 18 ins. in the ground.

80.00

Set an iron post, 3 ft. long, 2 ins. in diam., 18 ins. in the ground, surrounded by a mound of earth and stone, for the cor. of secs. 5-6-7 and 8, with brass cap, marked

T 3 N R 9 W
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S 6	S 5
S 7	S 8

1912

raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to set this post over 18 ins. in the ground.

Land, mountainous.

Soil, clay with gravel and loose rock, 18 to 24 ins. deep, 3rd rate.

Subsoil, gravel and loose rock.

No timber.

Undergrowth, sage brush and grass.

Dense undergrowth on 80.00 chs.

August 19: At this cor. I set off  $12^{\circ}44'N.$ , on the decl. arc, and at 0h.4m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $41^{\circ}01'N.$

S.  $89^{\circ}56'E.$ , on a random line

Bet. secs. 5 and 8.

40.00

Set temp.  $\frac{1}{4}$  sec.cor.

80.22

Intersect N. and S. line, 5 lks. S. of the cor. of secs. 4-5-8 and 9.

Thence I run

## SUBDIVISIONS OF T.3 N., R.9 W.

C. H. A. 13

## CHAINS

- N.  $89^{\circ}58'W.$ , on a true line  
Bet. secs. 5 and 8.  
Over gently rolling land, through dense undergrowth.
- 40.11 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked  
 $\frac{1}{4} S 5$   
Leave land, bears NW. and SE.
- 61.21, 61.51, S 8, and S. 9, road work done 90.00  
July 1912. Leave land, bears NW. and SE. Ascend over  
dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth.  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 46.74 Road, bears NW. and SE.
- 69.50 Leave gently rolling land, bears NW. and SE. Ascend over mountainous land.
- 80.22 The cor. of secs. 5-6-7-and 8.  
Land, gently rolling and mountainous.  
Soil, clay with sand and gravel, 24 ins. deep, 2nd rate, on the rolling portion, clay with gravel and loose rock, 24 ins. deep, 3rd rate on the rest.  
Subsoil, gravel and loose rock.  
No timber.  
Undergrowth, greasewood, sage brush and grass.  
Dense undergrowth on 80.22 chs.
- 
- N.  $89^{\circ}58'W.$ , on a random line  
Bet. secs. 6 and 7.  
Set temp.  $\frac{1}{4}$  sec. cor.
- 40.00 Intersect the W. bdy. of the Tp. 2 lks. N. of the cor. of secs. 1-6-7 and 12, heretofore described.
- 78.68 Thence I run  
S.  $89^{\circ}59'E.$ , on a true line  
Bet. secs. 6 and 7.  
Over gently rolling land, through dense undergrowth.
- 21.62 Road, bears NW. and SE.

## SUBDIVISIONS OF T.3 N., R.9 W.

CHAINS

- 38.68 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked  
 $N.0^{\circ}04'W.$ , on a random line  
 $S.0^{\circ}10'E.$ , on a true line  
 $1\frac{1}{4} S 6$
- 
- S.7
- 1912
- dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.
- 50.85 Road, bears NW. and SE.
- 65.84 Leave gently rolling land in Puddle Valley, ascend over open land, N.E. through a narrow valley, then over mountainous land, bears NW. and SE. Ascend.
- 72.00 Lake Side Range, bears NW. and SE.  
 Descend.
- 78.68 The cor. of secs. 5-6-7 and 8.  
 Land, gently rolling and mountainous.  
 Soil, clay and sandy loam with gravel, 24 ins. deep, 2nd rate, on the rolling portion, clay with gravel and loose rock, 24 ins. deep, 3rd rate, on the rest.  
 Subsoil, gravel and loose rock.  
 No timber.  
 Undergrowth, greasewood, sage brush and grass.  
 Dense undergrowth on 78.68 chs.
- 
- N.0 $^{\circ}04'W.$ , on a random line  
 Bet. secs. 5 and 6.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 79.90 Intersect the N.bdy. of the Tp. 14 lks. E. of the cor. of secs. 5-6-31 and 32, heretofore described.  
 Thence I run  
 $S.0^{\circ}10'E.$ , on a true line  
 Bet. secs. 5 and 6.  
 Descend over mountainous land, through dense undergrowth.

## SUBDIVISIONS OF T.3 N., R.9 W.

## CHAINS

39.00 Hollow, 150 ft. deep, course SE.  
Ascend.  
39.90 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 6 | S 5

1912

Raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Road, bears NW. and SE.  
The cor. of secs. 5-6-7 and 8.  
Land, mountainous.  
Soil, clay with gravel and loose rock, 24 ins. deep, 2nd rate.  
Subsoil, gravel and loose rock.

No timber.

Undergrowth, greasewood, sage brush and grass,  
Dense undergrowth on 79.90 chs.

Claude L. Haist

U.S. Transitman.

## MEANDERS OF T.3 N., R.9 W.

Meanders of the west shore of Great Salt Lake.

June 29.

I commence at the meander cor. of fractional secs. 19 and 24, on the 2nd Guide Meridian West., heretofore described. Thence I run with meanders in sec. 24.

Over level barren land.

N.  $73^{\circ}15'W.$ , 32.75 chs.  
N.  $66^{\circ}45'W.$ , 36.00 "

N.  $51^{\circ}30'W.$ , 20.00 " To the meander cor. of fractional secs. 23 and 24.

Land, level.

Soil, sand and alkali, 24 ins. deep, 4th rate.

No timber.

No undergrowth.

MEANDERS OF T.3 N., R.9 W.

Thence in sec. 23.

Over level, barren land.

N.  $24^{\circ}35'W.$ , 48.50 Chs To meander cor. of fractional secs.

14 and 23.

Land, level.

Soil, sand and alkali, 24 ins. deep, 4th rate.

Subsoil, marl.

No timber.

No undergrowth.

June 29, 1912.

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August 17: At 8h. 4m., a.m., l.m.t., I set off  $40^{\circ}59'N.$ , on the lat. arc,  $13^{\circ}26'N.$ , on the decl. arc, and determine a meridian with the solar at the meander cor. of fractional secs. 14 and 23.

Thence I run with meanders in sec. 14.

Over level barren land.

ch. 1.  $20^{\circ}45'W.$ , 85.60 To meander cor. of fractional secs.

11 and 14.

Land, level.

Soil, sand and alkali, 24 ins. deep, 4th rate.

Subsoil, marl.

No timber.

No undergrowth.

---

Thence in sec. 11.

Over level, barren land.

N.  $40^{\circ}34'W.$ , 46.15 chs. To meander cor. of fractional secs.

10 and 11.

Land, level.

Soil, sand and alkali, 24 ins. deep, 4th rate.

Subsoil, marl.

No timber.

No undergrowth.

MEANDERS OF T.3 N., R.9 W.

Thence in sec.10

Over level, barren land.

N. $43^{\circ}39'W.$ , 62.65 chs. To meander cor. of fractional secs.  
3 and 10.

Land, level.

Soil, sand and alkali, 24 ins. deep, 4th rate.

Subsoil, marl.

No timber.

No undergrowth.

August 17: At this cor. I set off  $13^{\circ}23'N.$ , on the decl. arc,  
and at Oh.4m., p.m., l.m.t., observe the sun on the meridian,  
the resultin glat. is  $41^{\circ}01'N.$ .

---

Thence in sec.3.

Over level, barren land.

N. $26^{\circ}45'W.$ , 82.40 chs. To meander cor. of fractional secs.  
3 and 4.

Land, level.

Soil, sand and alkali, 24 ins. deep, 4th rate.

Subsoil, marl.

No timber.

No undergrowth.

---

Thence in sec.4.

Over level, barren land.

N. $34^{\circ}50'W.$ , 7.82 chs. To meander cor. of fractional secs.  
4 and 33, on the N.bdy. of the Tp.  
heretofore described.

Land, level.

Soil, sand and alkali with salt, 24 ins. deep. 4th rate.

Subsoil, marl.

No timber.

No undergrowth.

August 17, 1912

*John D. Stewart*  
U.S. Surveyor.

SUBDIVISIONS OF T.3 N., R.9 W.

GENERAL DESCRIPTION OF T.3 N., R.9 W.

This fractional Tp. lies along the W. shore of Great Salt Lake, and is generally mountainous in character, with Lake Side Range, a range of mountains averaging about 500 ft. high, running diagonally across the Tp. The western tier of secs. and the secs. lying directly against the lake are gently rolling in character, having a light sandy and clay loam soil, and will raise crops without irrigation. This is especially true of the land in the western portion which lies in Puddle Valley.

The soil in the mountainous portion is of a rocky clay and suitable only for grazing purposes, there being an abundant growth of rich and nutritious grasses.

The land lying directly on the shore of the lake, is level shore land, the soil being composed of salt and alkali, and void of vegetation.

The Tp. in general is covered with a dense growth of greasewood and shadscale on the rolling portion, and sage brush on the mountainous portion.

Very little timber is found in this fractional Tp., there being only a few scattering cedars found along Lake Side Range.

There is no fresh water in any portion of this fractional Tp.

No indications of coal, oil, or mineral were found.

There are 2 settlers in this fractional Tp.: H.A. Shryver in sec. 36 has about 60 acres under cultivation, together with a house, barn, corrals, etc., the value of improvements being about \$ 1200.

James Love has about 10 acres under cultivation in sec. 25, also a cabin and about 10 acres plowed in sec. 26.

The value of improvements being about \$500.

Neither one of these settlers was living on their claims during the time of this survey.

John R. Stewart  
U.S. Surveyor.

Charles L. Scott  
U.S. Transitman.

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**CERTIFICATE OF ASSISTANTS.**

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,

, U. S. Surveyor, during the periods and in the capacities stated opposite our several signatures, in surveying all those parts or portions of

For certificate of assistants see book "L." T. 3 S. R. 6 W.

of the \_\_\_\_\_ Meridian, in the State of \_\_\_\_\_ which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

**FINAL OATH OF UNITED STATES SURVEYOR.**

I, \_\_\_\_\_, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for \_\_\_\_\_ bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_

For final oaths of U.S. Surveyor and Transitman see book "L" T.2 S.

R.6 W.

of the \_\_\_\_\_

Meridian, in the State of \_\_\_\_\_, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_\_ }



**APPROVAL.**

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Dec. 5, 1914

The foregoing field notes of the survey of \_\_\_\_\_ Subdivision and Meander lines of Township No. 3 North, Range No. 9 West of the Salt Lake Base and Meridian, Utah,

executed by \_\_\_\_\_ John R. Stewart and Claude L. Heist \_\_\_\_\_  
their \_\_\_\_\_ under his special instructions dated May 28, 1913, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

A large, handwritten signature in black ink, appearing to read "John R. Stewart".

U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

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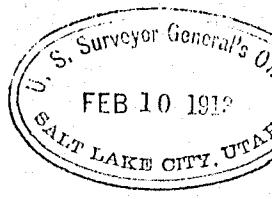
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H.

BOOK A-400



# FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISIONS

OF

TOWNSHIP NO. 4 S., RANGE NO. 10 W.

Of the Salt Lake Base and Meridian,

In the State of Utah.

## EXECUTED BY

John H. Stewart and Claude L. Heist.

In the capacity of U. S. Surveyor &amp; Transitman under instructions dated May 28, 1912.

Issued by the United States Surveyor General to govern surveys included in Group No. 12, which were approved by the Commissioner of the General Land Office, June 7, 1912, pursuant to authority contained in the Act of Congress dated

Survey commenced July 10, 1912

Survey completed July 30, 1912

Scale 1 mile = 25' 7"

Drawing No. 67

BOOK A-400

## INDEX DIAGRAM.

Township 2 SOUTH Range 10 WEST

6	78	5	60	4	47	3	30	2	15	1
77		75		59		46		29		14
7	75	8	59	9	44	10	27	11	12	12
73		72		57		43		26		11
18	72	17	56	16	41	15	25	14	10	13
70		69		55		40		23		9
19	68	20	54	21	38	22	21	23	7	21
67		66		52		37		20		6
30	65	29	51	28	36	27	19	26	4	25
64		63		50		34		18		3
31	61	32	48	33	33	31	16	35	2	36

SUBDIVISIONS OF T.2 S., R.10 W.

Survey commenced July 10, 1912 and executed with the instrument described in Survey of "F. bdy. T.2 S., R.10 W. I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m., and p.m., hours with a meridian determined by observations on Polaris, I proceed as follows:

At a point near camp, near the S.bdy. of sec. 16, T.2 S., R.10 W., in approximate latitude,  $40^{\circ}38'14''$  N., longitude,  $112^{\circ}58'33''$  W., I set off  $40^{\circ}38'N.$ , on the lat.arc,  $22^{\circ}13'$  N. on the decl.arc, and at 4h.5m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs.N. of my station.

July 10, 1912.

---

July 11: At Ch.17 m., a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions and mark a point in the line thus determined, on a peg driven in the ground, 5 chs.N. of my station.

At 7 a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}31'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set July 10, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8h.5m., a.m., l.m.t., I set off  $40^{\circ}38'N.$ , on the lat.arc,  $22^{\circ}08'N.$ , on the decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set, 5 chs.N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m., and a.m., observations, defines positions for meridians, respectively, about  $0'21''$  west, and  $0'16''$  east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

	The magnetic bearing of the true meridian, at 8h.30m., a.m. is N.16°30'W., the angle thus determined gives the mag. decl.16°30'E.
	I commence at the cor.of secs. 35. and 36, on the S. bdy. of the Tp., heretofore described.
	July 11: At 9h.5m., a.m., l.m.t. I set off 40°36'N., on the lat.arc, 22°07'N., on the decl.arc, and determine a meridian with the solar.
	Thence I run N.0°01'E., bet.secs.35 and 36.
	Ascend over mountainous land, through scattering timber and dense undergrowth.
19.00	Ridge, bears E. and W.
	Descend abruptly.
27.50	Hollow, 350 ft. deep, course E.
	Ascend.
36.36	Ridge, 450 ft. high, bears E. and W.
	Descend.
40.00	Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the $\frac{1}{4}$ sec.cor., with brass cap, marked
	$\frac{1}{4}$ S 35   S 36 1912
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
40.50	Head of hollow, 100 ft. deep, course NE.
	Ascend.
47.10	Ridge, bears NE. and SW.
	Descend abruptly.
54.20	Hollow, 250 ft. deep, course NE.
	Ascend.
67.60	Ridge, bears NE. and SW.
	Descend.
78.00	Hollow, 350 ft. deep, course E.
	Ascend.
80.00	Set an iron post, 36 ins. long, 2 ins. diam., 24 ins. in the ground for the cor.of secs. 25-26-35 and 36, with brass

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS

cap, marked

T 2 S R 10 W

S 26	S 25
S 35	S 36

1912

from which

A cedar, 4 ins. diam., bears N.  $29^{\circ}E.$ , 71 lks. dist.,

marked T 2 S R 10 W S 25 BT.

A cedar, 5 ins. diam., bears S.  $26^{\circ}45'E.$ , 18 lks. dist.,  
marked T 2 S R 10 W S 36 BT.A cedar, 12 ins. diam., bears S.  $89^{\circ}W.$ , 115 lks. dist.,  
marked T 2 S R 10 W S 35 BT.A cedar, 8 ins. diam., bears N.  $86^{\circ}30'W.$ , 93 lks. dist.,  
marked T 2 S R 10 W S 26 BT.

Land, mountainous,

Soil, clay and loose rock, 24 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land or land covered with dense undergrowth  
on 80.00 chs.July 11: At this cor. I set off  $22^{\circ}06'N.$  on the decl. arc,  
and at 9h. 5m., p.m., l.m.t., observe the sun on the meridian,  
the resulting lat. is  $40^{\circ}36'30''N.$ S.  $89^{\circ}56'E.$ , on a random line

Bet. secs. 25 and 36.

40.00 Set temp. sec. cor.

80.06 Intersect the E. bdy of the Tp. 16 lks. S of the cor. of secs.  
25-30-31 and 36, (described in retracement E. bdy. of Tp.)

Thence I run

S.  $89^{\circ}57'W.$ , on a true line.

Bet. secs. 25 and 36.

Over gently rolling land through dense undergrowth.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS	
22.30	Road, bears NE. and SW.
30.00	Leave gently rolling land, bears NW. and SE. Ascend over mountainous land.
34.50	Spur, projects SE.
/	Descend.
40.03	Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor., with brass cap, marked
	$\frac{1}{4}$ S 25
	—
	S 36
	1912
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
51.10	Hollow, 150 ft. deep, course SE. Enter scattering timber bears NW. and SE.
	Ascend.
60.00	Spur, projects NE.
	Descend.
64.00	Hollow, 150 ft. deep, course NE.
/	Ascend.
80.06	The cor. of secs. 25-26-35 and 36.
	Land, mountainous.
	Soil, clay loam and loose rock, 24 ins. deep, 3rd rate.
	Subsoil, loose rock.
	Timber, cedar.
	Undergrowth, sage brush and grass.
	Mountainous land on 50.06 chs.

July 11, 1912.

July 12: At 8h.5m.a.m., 1.m.t., I set off  $40^{\circ}36'30''$ N., on the lat.arc,  $22^{\circ}0'N.$  on the decl.arc, and determine a meridian with the solar at the cor. of secs. 25-26-35 and 36.

Thence I run

N. $0^{\circ}01'E.$ , bet. secs. 25 and 26.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

## CHAINS

Ascend over mountainous land through scattering timber and dense undergrowth.

12.40 Spur, projects E.

Descend abruptly.

22.90 Hollow, 400 ft. deep, course SE.

Ascend.

30.80 Ridge, bears E. and W.

Descend.

35.80 Head of hollow, 50 ft. deep, course E.

Ascend.

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 20 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 26 | S 25

1912 ✓

from which

A cedar, 4 ins. diam., bears N.  $72^{\circ}$  E., 73 lks. dist., marked  $\frac{1}{4}$  S 25 BT.

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Note; On account of natural obstacles it is impossible to set this cor. over 20 ins. in the ground.

41.10 Ridge, bears NE. and SW.

Descend abruptly.

56.40 Hollow, 300 ft. deep, course NE.

Ascend.

66.70 Spur, projects NE.

Descend abruptly.

71.80 Hollow, 250 ft. deep, course E.

Ascend.

78.75 Spur, projects E.

Descend.

80.00 Set an iron post, 36 ins. long, 2 ins. in diam., 16 ins. in the ground, surrounded by a mound of stone and earth, for the cor. of secs. 23-24-25 and 26, with brass cap, marked

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS

T 2 S R 10 W	
S 23	S 24
S 26	S 25

1912

from which

A cedar, 6 ins. diam., bears N.  $68^{\circ}$  E., 47 lks. dist.,  
marked T 2 S R 10 W S 24 BT.

A cedar, 6 ins. diam., bears S.  $27^{\circ}$  E., 80 lks. dist.,  
marked T 2 S R 10 W S 25 BT.

A cedar, 4 ins. diam., bears S.  $51^{\circ}$  W., 83 lks. dist.,  
marked T 2 S R 10 W S 26 BT.

A cedar, 12 ins. diam., bears N.  $66^{\circ}30'$  W., 134 lks. dist.,  
marked T 2 S R 10 W S 23 BT.

Note; On account of natural obstacles it is impossible  
to set this cor. over 16 ins. in the ground.

Land, mountainous.

Soil, clay and loose rock, 16 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land or land covered with dense undergrowth  
on 80.00 chs.

N.  $89^{\circ}57'$  E., on a random line,

Bet. secs. 24 and 25.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.10 Intersect the E. bdy. of the Tp. 11 lks. S. of the cor. of secs.  
19-24-25 and 30. (Described in retracement E. bdy. of Tp).  
July 12; At this cor. I set off  $21^{\circ}58'$  N. on the decl. arc,  
and at Oh. 5m., p.m., 1 m.t., observe the sun on the meridian  
the resulting lat. is  $40^{\circ}37'$  N.

Thence I run

S.  $89^{\circ}52'$  W., on a true line

Bet. secs. 24 and 25.

Over gently rolling land through dense undergrowth.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS 15.20	Road, Redland Springs to Delle, bears NE. and SW.
40.05	Set an iron post, 36 ins. long, 1 in. diam., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor., with brass cap, marked
	$\frac{1}{4}$ S 24
	—
	S 25 ✓
	1912
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
55.10	Leave gently rolling land, bears N. and S. Ascend over mountainous land, along N. slope of spur.
	Enter scattering timber, bears N. and S.
80.10	The cor. of secs. 23-24-25 and 26.
	Land, rolling and mountainous.
	Soil, clay and sandy loam on rolling portion, clay and loose rock, 20 ins. deep, 3rd rate, on mountainous portion.
	Subsoil, loose rock and clay.
	Timber, cedar.
	Undergrowth, sage brush and grass.
	Mountains up land on 25.00 chs.
	—
	N. 0°01' E., bet. secs. 23 and 24.
	Descend over mountainous land, through scattering timber and dense undergrowth.
2.00	Hollow, 150 ft. deep, course E.
	Ascend.
8.00	Spur, projects E.
	Descend abruptly.
23.50	Hollow, 250 ft. deep, course NE.
	Ascend.
36.70	Spur, projects E.
	Descend.
40.00	Set an iron post, 36 ins. long, 1 in. diam., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor., with brass cap, marked

$\frac{1}{4}$  S 25 | S 24 ✓

1912

## SUBDIVISIONS OF T. 2 S., R. 10 W.

## CHAINS

from which

A cedar, 4 ins. diam., bears S.  $56^{\circ}$  E., 94 lks. dist.,  
marked  $\frac{1}{4}$  S 24 BT.

A cedar, 6 ins. diam., bears N.  $54^{\circ}$  W., 40 lks. dist.,  
marked  $\frac{1}{4}$  S 23 BT.

42.00 Hollow, 200 ft. deep, course E.

Ascend.

51.30 Spur, projects NE.

Descend abruptly.

57.60 Hollow, 250 ft. deep, course NE.

Ascend.

68.40 Spur, projects E.

Descend.

78.00 Hollow, 300 ft. deep, course E.

Ascend.

80.00 Set an iron post, 36 ins. long, 2 ins. diam., 18 ins. in the  
ground, surrounded by a mound of earth and stone, for the  
cor. of secs. 13-14-23 and 24, with brass cap, marked

T 2 S R 10 W

S 14	S 13
S 23	S 24

1912

from which

A cedar, 6 ins. diam., bears N.  $72^{\circ}30'$  E., 46 lks. dist.,  
marked T 2 S R 10 W S 13 BT.

A cedar, 12 ins. diam., bears S.  $28^{\circ}15'$  E., 42 lks. dist.,  
marked T 2 S R 10 W S 24 BT.

A cedar, 8 ins. diam., bears S.  $55^{\circ}$  W., 29 lks. dist.,  
marked T 2 S R 10 W S 23 BT.

A cedar, 8 ins. diam., bears N.  $41^{\circ}$  W., 6 lks. dist.,  
marked T 2 S R 10 W S 14 BT.

Note: On account of natural obstacles it is impossible  
to set this cor. over 18 ins. in the ground.

Land, mountainous.

Soil, clay and loose rock, 18 ins. deep, 3rd rate.

Subsoil, loose rock.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS	<p>Timber, cedar.</p> <p>Undergrowth, sage brush and grass.</p> <p>Mountainous land or land covered with dense undergrowth on 80.00 chs.</p>
	July 12, 1912.
	<p>July 13: At 8 h. 5m. a.m., l.m.t., I set off <math>40^{\circ}38'N.</math> on the lat.arc, <math>21^{\circ}51'N.</math> on the decl.arc, and determine a meridian with the solar at the cor.of secs. 13-14-23 and 24, Thence I run  <math>N.89^{\circ}52'E.</math>, on a random line,  Bet.secs. 13 and 24.</p>
40.00	Set temp. of sec.cor.
80.18	<p>Intersect E.bdy. of the Tp. 9 lks.S. of the cor.of secs.      13-18-19 and 24. (Described in retracement E.bdy. of Tp.)      Thence I run  <math>S.89^{\circ}48'W.</math>, on a true line      Bet.secs. 13 and 24.      Over gently rolling land through dense undergrowth.</p>
4.50	Road, Redland Springs to Delle, bears NE. and SW.
40.09	<p>Set an iron post, 36 ins. long, 1 in. in diam., 20 ins. in the ground, surrounded by a mound of stone and earth, for <math>\frac{1}{4}</math> sec.      cor., with brass cap, marked</p>
	$\frac{1}{4}$ S 13
	—
	S 24
	1912
	<p>dig pits, <math>18 \times 18 \times 12</math> ins. N. and W. of post, 3 ft. dist., and raise a mound of earth, <math>3\frac{1}{2}</math> ft. base, <math>1\frac{1}{2}</math> ft. high, N. of cor.</p> <p>Note: On account of natural obstacles it is impossible to set this post over 20 ins. in the ground.</p>
40.70	Leave rolling bench land, bears NE. and SW. Ascend over mountainous land.
44.00	Enter scattering timber, bears NE. and SW.

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

80.18	<p>The dor.of secs.13-14-23 and 24.</p> <p>Land, rolling and mountainous.</p> <p>Soil, clay and sandy loam on rolling portion, clay and loose rock, 20 ins. deep, 3rd rate, on mountainous portion.</p> <p>Subsoil, loose rock.</p> <p>Timber, cedar.</p> <p>Undergrowth, sage brush and grass.</p> <p>Mountainous land on 39.48 chs.</p> <p>July 13; At this cor. I set off <math>21^{\circ}49'N</math>. on the decl. arc, and at 0h.5m., p.m.l.m.t., observe the sun on the meridian, the resulting lat. <math>40^{\circ}38'N</math>.</p> <hr/> <p><math>N0^{\circ}01'E.</math>, bet. secs. 13 and 14.</p> <p>Ascend over mountainous land through scattering timber and dense undergrowth.</p>						
17.50	<p>Spur, projects SE.</p> <p>Descend abruptly.</p>						
22.00	<p>Hollow, 250 ft. deep, course E.</p> <p>Ascend.</p>						
40.00	<p>Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the <math>\frac{1}{4}</math> sec.cor. with brass cap, marked</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;"><math>\frac{1}{4}</math> S 14</td> <td style="text-align: center;"> </td> <td style="text-align: center;">S 13</td> </tr> <tr> <td colspan="3" style="text-align: center;">1912</td> </tr> </table> <p>from which</p> <p>A cedar, 6 ins. diam. bears <math>S.12^{\circ}45'E.</math>, 27 lks. dist., marked <math>\frac{1}{4}</math> S 13 BT.</p> <p>A cedar, 6 ins. diam., bears <math>N.83^{\circ}W.</math>, 62 lks. dist., marked <math>\frac{1}{4}</math> S 14 BT.</p>	$\frac{1}{4}$ S 14		S 13	1912		
$\frac{1}{4}$ S 14		S 13					
1912							
43.00	<p>Ridge, bears E. and W.</p> <p>Descend abruptly.</p>						
47.60	<p>Hollow, 350 ft. deep, course E.</p> <p>Ascend over broken ledges and boulders.</p>						
61.60	<p>Ridge, bears E. and W.</p> <p>Descend.</p>						
78.00	<p>Hollow, 300 ft. deep, course E.</p>						

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS

Ascend.

80.00

Set an iron post, 36 ins. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 11-12-13 and 14, with brass cap, marked

T 2 S R 10 W

S 11	S 12
<hr/>	
S 14	S 13

1912

from which

A cedar, 15 ins. diam., bears N. 67° E., 46 lks. dist., marked T 2 S R 10 W S 12 BT.

A cedar, 8 ins. diam., bears S. 78° 30' E., 47 lks. dist., marked T 2 S R 10 W S 13 BT.

A cedar, 14 ins. diam., bears S. 53° 30' W., 115 lks. dist., marked T 2 S R 10 W S 14 BT.

A cedar, 12 ins. diam., bears N. 36° W., 64 lks. dist., marked T 2 S R 10 W S 11 BT.

Land, mountainous.

Soil, clay and loose rock, 24 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land on 80.00 chs.

July 13, 1912.

July 15: At 8h. 6m., a.m., 1.m.t., I set off 40° 39' N. on the lat. arc, 21° 33' N. on the decl. arc, and determine a meridian with the solar at the cor. of secs. 11-12-13 and 14.

Thence I run

N. 89° 48' E., one random line

Bet. secs. 12 and 13.

40.00

Set temp. of sec. cor.

80.20

Intersect E. bdy. of the Tp. 11 lks. S. of the cor. of secs.

7-12-13 and 18. (Described in retracement E. bdy. of Tp.)

## SUBDIVISIONS OF T. 2 S., R. 10 W.

## CHAINS

Thence I run  
 S.  $89^{\circ}43'W.$ , on a true line  
 Bet. secs. 12 and 13.  
 Ascend over mountainous land, through scattering timber and dense undergrowth.

10.00 Spur, projects SE.

Descend.

34.50 Hollow, 150 ft. deep, course SE.

Ascend.

40.10 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 12

S 13

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

56.30 Spur, projects SE.

Descend abruptly.

66.40 Hollow, 200 ft. deep, course SE.

Ascend.

80.20 The cor. of secs. 11-12-13 and 14.

Land, mountainous.

Soil, clay and loose rock, 24 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land or land covered with dense undergrowth on 80.20 chs.

July 15: At this cor. I set off  $21^{\circ}31'N.$  on the decl. arc, and at Oh. 6 m., p.m., 1. m. t., observe the sun on the meridian, the resulting lat. is  $40^{\circ}39'$ .

N.  $0^{\circ}01'E.$ , bet. secs. 11 and 12.

Ascend over mountainous land through scattering timber and dense undergrowth.

29.80 Rocky ridge, bears NW. and SE.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS	
	Descend over broken ledges and boulders.
40.00	Set an iron post, 36 ins. long, 1 in. in diam., 16 ins. in the ground, surrounded by a mound of stone and earth, for the $\frac{1}{4}$ sec. cor., with brass cap, marked
	$\frac{1}{4}$ S 11   S 12 1912
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Note: On account of natural obstacles it is impossible to set this cor. over 16 ins. in the ground.
43.00	Descend abruptly over a perpendicular sandstone ledge 100 ft. high.
78.00	Rocky hollow, 690 ft. deep, course SE.
	Ascend.
80.00	Set an iron post, 36 ins. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 1-2-11 and 12, with brass cap, marked
	T 2 S R 10 W S 2   S 1 ---+--- S 11   S 12 1912
	from which
	A cedar, 8 ins. diam., bears N. $70^{\circ}$ E., 49 lks. dist., marked T 2 S R 10 W S 1 BT.
	A cedar, 6 ins. diam., bears S. $53^{\circ}$ E., 59 lks. dist., marked T 2 S R 10 W S 12 BT.
	A cedar, 5 ins. diam., bears S. $48^{\circ}$ W., 67 lks. dist., marked T 2 S R 10 W S 11 BT.
	A cedar, 6 ins. diam., bears N. $44^{\circ}$ W., 86 lks. dist., marked T 2 S R 10 W S 2 BT.
	Land, mountainous.
	Soil, clay and loose rock, 16 to 24 ins. deep, 3rd rate.
	Subsoil, loose rock.
	Timber, cedar.
	Undergrowth, sage brush and grass.
	Rough, mountainous land on 80.00 chs.

July 15, 1912.

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

July, 16: At 8h. 6m., a.m., l.m.t., I set off  $40^{\circ}40'N$ . on the lat.arc,  $21^{\circ}23'N$ . on the decl.arc, and determine a meridian with the solar at the cor.of secs.1-2+11 and 12. ✓

Thence I run

$N.89^{\circ}43'E.$ , on a random line

Bet.secs.1 and 12.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.22 Intersect the E.boundary of the Tp. 7 lks, S.of the cor. of secs.1-6-7 and 12. (Described in retracement E.bdy.of Tp.) This line being out of the prescribed limits for course with the S.bdy.of the Tp. Therefore at my intersection with the E.bdy.of the Tp., I

Set an iron post, 36 ins.long,  $\frac{1}{2}$  in. in diameter, 24 ins in the ground for the closing cor.of secs.1 and 12, with brass cap, marked

T 2 S

S 1	S 6
CC	
S 12	S 7

R 10 W R 9 W

1912

dig pits,  $24 \times 18 \times 12$  ins., crosswise on each line, N. and S., 3 ft. and W.of post, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high W.of cor.'

I destroy all marks on the cor.of secs.1-6-7 and 12, pertaining to R.10 W.

Thence I run

$S.89^{\circ}43'W.$ , on a true line,

Bet.secs.1 and 12.

Ascend over mountainous land through scattering timber and dense undergrowth.

4.80 Spur, projects SE.

Descend.

14.00 Hollow, 150 ft. deep,drains SE. Redland Spring Hollow.

Ascend.

33.20 Spur, projects SE.

Descend.

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

- 40.11 Set an iron post, 36 ins. long, 1 in. in diam., 18 ins. in the ground, surrounded by a mound of stone and earth, for the  $\frac{1}{4}$  sec.cor., with brgs & cap, marked

 $\frac{1}{4}$  S 1

S 12

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Note: On account of natural obstacles it is impossible to set this cor. over 18 ins. in the ground.

- 58.10 Hollow, 200 ft. deep, course SE.

Ascend.

- 72.70 Ridge, bears NW. and SE.

Descend.

- 78.25 Head of hollow, 75 ft. deep, course SE.

Ascend.

- 80.22 The cor. of secs. 1-2-11 and 12.

Land, mountainous.

Soil, clay and loose rock, 18 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land, or land covered with dense undergrowth on 20.22 chs.

July 16: At this cor. I set off 21°21' N. on the decl. arc, and at 6m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 40°40' N.

N. 0°01' E., on a random line,

Bet. secs. 1 and 2.

- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.

- 80.33 Intersect the N.bdy. of the Tp. 26 1ks. W. of temp.cor. of secs. 1-2-35 and 36, which was afterward made permanent at the same point, in survey of N.bdy. Thence I run S. 0°12' W., on a true line

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

Bet. secs. 1 and 2.  
 Descend over mountainous land through scattering timber  
 and dense undergrowth.  
 12.00 Head of hollow, 200 ft. deep, course NE.  
 Ascend.  
 20.30 Ridge, bears SE. and NW.  
 Descend.  
 40.33 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the  
 ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked  

$$\begin{array}{c|c} \frac{1}{4} & S 2 \\ \hline & S 1 \end{array}$$
 1912  
 and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high W. of cor.  
 49.50 Hollow, 400 ft. deep, course SE.  
 Ascend.  
 75.00 Ridge, bears NW. and SE.  
 Descend.  
 80.33 The cor. of secs. 1-2-11 and 12.  
 Land, mountainous.  
 Soil, clay and loose rock, 24 ins. deep, 3rd rate.  
 Subsoil, loose rock.  
 Timber, cedar.  
 Undergrowth, sage brush and grass.  
 Mountainous land, or land covered with dense undergrowth  
 on 80.33 chs.

July 16, 1912.

July 17: At 8h. 6m., a.m., 1.m.t., I set off  $40^{\circ}36'N.$ , on  
 the lat. arc,  $21^{\circ}13'N.$  on the decl. arc, and determine a mer-  
 idian with the solar at the cor. of secs. 34 and 35 on the  
 S.bdy. of the Tp., heretofore described.  
 Thence I run  
 North, bet. secs. 34 and 35.  
 Descend over mountainous land through scattering timber  
 and dense undergrowth.

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

- 3.00 Hollow, 100 ft. deep, course SE.  
Ascend.
- 29.50 Ridge, bears SE. and NW.  
Descend over broken sandstone ledges.
- 34.00 Hollow, 500 ft. deep, course SE.  
Ascend abruptly.
- 40.00 Set an iron post, 36 ins. long, 1 in. in diam., 14 ins. in  
the ground, surrounded by a mound of stone and earth, for  
the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$$\frac{1}{4} S 34 \quad | \quad S 35$$

1912

from which

A cedar, 20 ins. diam., bears S.  $75^{\circ}$  E., 30 lks. dist.,  
marked  $\frac{1}{4}$  S 35 BT.

A cedar, 12 ins. diam., bears S.  $85^{\circ}$  W., 27 lks. dist.,  
marked  $\frac{1}{4}$  S 34 BT.

Note: On account of natural obstacle it is impossible to  
set this post over 14 ins. in the ground. ✓

- 70.00 Ridge, bears NW. and SE.

Descend. Leave scattering timber bears E. and W.

- 76.00 Head of hollow, 200 ft. deep, course E.

Ascend.

- 80.00 Set an iron post, 36 ins. long, 2 ins. in diam., 16 ins. in the  
ground, surrounded by a mound of earth and stone, for the cor.  
of secs. 26-27-34 and 35, with brass cap, marked

T 2 S R 10 W

$$3 \quad 27 \quad | \quad S \quad 26$$

$$S \quad 34 \quad | \quad S \quad 35$$

1912

and raises a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible to  
set this cor. over 16 ins. in the ground.

Land, mountainous.

Soil, clay and loose rock, 16 ins. deep, 3rd rate.

Subsoil, loose rock.

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land, or land covered with dense undergrowth on 80.00 chs.

July 17: at this cor. I set off  $21^{\circ}11'N.$  on the decl. arc, and at Oh. 6m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $40^{\circ}36'30''N.$

---

S. $89^{\circ}55'E.$ , on a random line,

Bet. secs. 26 and 35.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.06 Intersect N. and S. line, at the cor. of secs. 25-26-35 and 36

Thence I run

N. $89^{\circ}55'W.$ , on a true line,

Bet. secs. 26 ad 35.

Ascend over mountainous land through heavy timber.

14.80 Spur, projects SE.

Descend.

21.00 Hollow, 100 ft. deep, course SE.

Ascend.

30.00 Spur, projects SE.

Descend.

39.30 Hollow, 300 ft. deep, course SE.

Ascend.

40.03 Set an iron post, 36 ins. long, 1 in. in diam., 16 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec.cor., with brass capmarked

$\frac{1}{4}$  S 26

---

S 35

1912

from which

A cedar, 8 ins. diam., bears N. $60^{\circ}E.$ , 30 lks. dist., marked  $\frac{1}{4}$  S 26 BT.

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

A cedar, 12 ins. diam., bears S.  $80^{\circ}$  W., 15 lks. dist., marked  $\frac{1}{4}$  S 35 BT.

Note: On account of natural obstacles it is impossible to set this cor. over 16 ins. in the ground.

65.00 Leave heavy timber, bears N. and S. Enter dense undergrowth. Ascend over broken sand stone ledges.

80.06 The cor. of secs. 26-27-34 and 35.

Land, rough mountainous.

Soil, clay and loose rock, 16 to 20 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar,

Undergrowth, sage brush and grass.

Heavily timbered land on 16.06 chs.

July 17, 1912.

July 18: At 8h. 6m., a.m., l.m.t., I set off  $40^{\circ}36'30''$  N. on the lat. arc,  $21^{\circ}03'N.$  on the decl. arc, and determine a meridian with the solar at the cor. of secs. 26-27-34 and 35.

Thence I run

North, bet. secs. 26 and 27.

Ascend over mountainous land through dense undergrowth.

26.10 Ridge, bears SE. and NW.

Descend.

30.00 Head of hollow, 200 ft. deep, course E.

Ascend.

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 27 | S 26

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

48.70 Cedar Ridge, 400 ft. high, bears NE. and SW.

Descend.

78.10 Head of hollow, 150 ft. deep, course NW.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS	
	Ascend.
80.00	Set an iron post, 36 ins. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 22-23-26 and 27, with brass cap, marked
	T. 2 S. R. 10 W.
	S 22   S 23 -----+----- S 27   S 26
	1912.
	and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Land, mountainous.
	Soil, clay and loose rock, 24 ins. deep, 3rd rate.
	Subsoil, loose rock.
	No timber.
	Undergrowth, sage brush and grass.
	Mountainous land, or land covered with dense undergrowth on 80.00 chs.
	July 12: At this cor. I set off 21°01'W. on the decl. arc, and at 1h. 6m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 40°37'N.
40.00	S. 89°55'E., on a random line.
79.96	Bet. secs. 23 and 26.
	Set temp. $\frac{1}{4}$ sec. cor.
	Intersect N. and S. line, 14 lks. S. of the cor. of secs. 23-24-25 and 26.
	Whence I run
	S. 89°59'W., on a true line
	Bet. secs. 23 and 26.
	Ascend over mountainous land, through scattering timber and dense undergrowth.
7.50	Ridge, bears NW. and SE.
	Descend..
16.20	Hollow, 50 ft. deep, course SE.
	Ascend.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS	
24.20	Ridge, bears NE. and SW. Descend abruptly.
35.00	Hollow, 200 ft. deep, course NE. Ascend, abruptly. Leave scattering timber, bears NE. and SW.
39.98	Set an iron post, 36 ins. long, 1 in. in diam., 14 ins. in the ground surrounded by a mound of earth and stone, for the $\frac{1}{4}$ sec. cor., with brass cap, marked
	$\frac{1}{4}$ S 23
	—
	S 26
	1912
	and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
	Note: On account of natural obstacles it is impossible to set this cor. over 14 ins. in the ground.
42.25	Perpendicular sand stone ledge, 50 ft. high, bears N. and S.
78.60	Cedar Ridge, 1000 ft. above hollow, bears NE. and SW. Descend gradually.
79.96	The cor. of secs. 22-23-26 and 27. Land, mountainous. Soil, clay and loose rock, 14 to 20 ins. deep, 3rd rate. Subsoil, loose rock. Timber, cedar. Undergrowth, sage brush and grass. Mountainous land, or land covered with dense undergrowth on 79.96 chs.
	July 18, 1912.
	July 19: At 8h. 6m., a.m., 1.m.t., I set off $40^{\circ}37'N.$ , on the lat. arc, $20^{\circ}52'W.$ , on the decl. arc, and determine a meridian with the solar at the cor. of secs. 22-23-26 and 27. Thence I run North, bet. secs. 22 and 23. Ascend over mountainous land, through dense undergrowth.

## SUBDIVISIONS OF T.2 S., R.10 W.

Chains

- 15.50 Spur, projects W.  
Descend.
- 40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{2}$  sec. cor., with brass cap, marked  

$$\begin{array}{c|c} \frac{1}{4} S 22 & S 23 \\ \hline \end{array}$$
1912  
dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.
- 54.00 Head of hollow, 220 ft. deep, course SW.  
Ascend. Enter scattering timber bears NE. and SW.
- 61.00 Ridge, bears E. and W.  
Descend.
- 64.00 Head of hollow, 100 ft. deep, course NW.  
Ascend.
- 67.50 Ridge, bears NW. and SE.  
Descend.
- 75.40 Hollow, 150 ft. deep, course NW.  
Ascend.
- 80.00 Set an iron post, 36 ins. long, 2 ins. in diam., 16 ins. in the ground, surrounded by a mound of earth and stone, for the cor of secs. 14-15-22 and 23, with brass cap, marked

T 2 S R 10 W

$$\begin{array}{c|c} S 15 & S 14 \\ \hline S 22 & S 23 \end{array}$$

1912 V

from which

A cedar, 8 ins. diam., bears N. 30° E., 118 lks. dist., marked T 2 S R 10 W S 14 BT.

A cedar, 10 ins. diam., bears S. 5° 30' E., 109 lks. dist., marked T 2 S R 10 W S 23 BT.

A cedar, 8 ins. diam., bears S. 65° W., 67 lks. dist., marked T 2 S R 10 W S 22 BT.

No other trees available, raise a mound of stone, 2 ft. base 1 $\frac{1}{2}$  ft. high, W. of cor.

Note: On account of natural obstacles it is impossible

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS	
	to set this cor. over 16 ins. in the ground.
	Land, mountainous,
	Soil, clay and loose rock, 16 ins. deep, 3rd rate.
	Subsoil, loose rock.
	Timber, cedar.
	Undergrowth, sage brush and grass.
	Mountainous land or land covered with dense undergrowth on 80.00 chs.
	July 19: At this cor. I set off 20°50' N. on the decl. arc, and at 0h.6m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 40°38' N.
	N. 89°59' E., on a random line
	Bet. secs. 14 and 23.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.86	Intersect N. and S. line, 11 lks. S. of the cor. of secs. 13-14-23 and 24.
	Thence, I run
	S. 89°54' W., on a true line
	Bet. secs. 14 and 23.
	Descend over mountainous land through heavy timber.
6.00	Hollow, 50 ft. deep, course SE.
	Ascend.
14.50	Ridge, bears N. and S.
	Descend.
17.00	Head of hollow, 50 ft. deep, course NW.
	Ascend.
19.50	Spur, projects NW.
	Descend.
22.40	Same hollow, course SE.
	Ascend.
31.50	Spur, projects SE.
	Descend.
32.10	Perpendicular sand stone ledge, 60 ft. high, bears NW. and SE.
33.60	Hollow, 75 ft. deep, course SE.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS	
/	Ascend.
39.93	Set an ironpost, 36 ins. long, 1 in. in diam., 14 ins. in the ground, surrounded by a mound of stone and earth, for the $\frac{1}{4}$ sec. cor., with brass cap, marked
	$\frac{1}{4}$ S 14
	—
	S 23
	1912
	from which
	A cedar, 12 ins. diam., bears N. $12^{\circ}30' E.$ , 55 lks. dist., marked $\frac{1}{4}$ S 14 BT.
	A cedar, 6 ins. diam., bears S. $17^{\circ}30' W.$ , 62 lks. dist., marked $\frac{1}{4}$ S 23 BT.
	Note: On account of natural obstacles it is impossible to set this post over 14 ins. in the ground.
45.75	Spur, projects SE.
	Descend.
49.50	Head of hollow, 50 ft. deep, course SE.
	Ascend.
58.40	Cedar Ridge, 200 ft. high, bears NE. and SW.
	Descend Leave heavy timber, bears NE. and SW. Enter dense undergrowth.
63.50	Head of hollow, 100 ft. deep, course NW.
	Ascend.
71.00	Ridge, bears NW. and SE.
	Descend.
79.86	The cor. of secs. 14-15-22 and 23.
	Land, mountainous.
	Scil, clay loam and loose rock, 14 to 20 ins. deep, 3rd rate.
	Subscil, loose rock,
	Timber, cedar.
	Undergrowth, sage brush and grass.
	Mountainous land on 79.86 chs.

July 19, 1912.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

## CHAINS

July 20; At 8h. 6m., a.m.l.m.t., I set off  $40^{\circ}38'N.$  on the lat.arc,  $20^{\circ}41'N.$ , on the decl.arc, and determine a meridian with the solar at the cor.of secs. 14-15-22 and 23.

Thence I run

North, bet. secs. 14 and 15.

Ascend over mountainous land, through scattering timber and dense undergrowth.

13.70

Ridge, bears NW. and SE..

Descend.

29.00

Hollow, 300 ft. deep, course NW.

Ascend.

40.00

Set an iron post, 36 ins. long, 1 in. in diam., 14 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked.

$\frac{1}{4}$  S 15 | S 14

1912

from which

a cedar, 14 ins. diam., bears N. $12^{\circ}E.$ , 107 lks. dist., marked  $\frac{1}{4}$  S 14 ET.

A cedar, 14 ins. diam., bears S. $55^{\circ}W.$ , 42 lks. dist., marked  $\frac{1}{4}$  S 15 BT.

Note: On account of natural obstacles it is impossible to set this cor. over 14 ins. in the ground.

44.70

Ridge, bears NW. and SE..

Descend abruptly.

51.70

Enter heavy timber, bears NW. and SE..

60.00

Hollow, 300 ft. deep, course NW.

Ascend.

64.00

Spur, projects NW..

Descend.

77.80

Same hollow, course NE..

Ascend.

80.00

Set an iron post, 36 ins. long, 2 ins. diam., 24 ins. in the ground for the cor.of secs. 10-11-14 and 15, with brass cap, marked

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS

T 2 S R 10 W.

S 10 | S 11

S. 15 | S 14

1912

from which

A cedar, 16 ins. diam., bears N.  $32^{\circ}$  E., 51 lks. dist.,  
marked T 2 S R 10 W S. 11 BT.

A cedar, 24 ins. diam., bears S.  $48^{\circ}$  E., 122 lks. dist.,  
marked T 2 S R 10 W S 14 BT.

A cedar, 10 ins. diam., bears S.  $18^{\circ}$  W., 56 lks. dist.,  
marked T 2 S R 10 W S 15 BT.

A cedar, 24 ins. diam., bears N.  $28^{\circ}$  W., 19 lks. dist.,  
marked T 2 S R 10 W S 10 BT.

Land, mountainous.

Soil, clay and loose rock. 24 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land on 80.00 chs.

N.  $89^{\circ}54'$  E., on a random line

Bet. secs. 11 and 14.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.88 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 11-12-13 and 14.

Thence I run

S.  $89^{\circ}56'$  W., on a true line

Bet. secs. 11 and 14.

Ascend over mountainous land through, heavy timber.

37.00 Ridge, bears NW. and SE.

Descend. Leave heavy timber, bears N. and S. Enter scattering timber and dense undergrowth.

39.94 Set an iron post, 36 ins. long, 1 in. in diam., 14 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

 $\frac{1}{4}$  S 11

S 14 ✓

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high. N. of cor.

Note: On account of natural obstacles it is impossible to set this cor. over 14 ins. in the ground.

46.00 Hollow, 100 ft. deep, course SE.

Ascend.

54.60 Cedar Ridge, 200 ft. high, bears N. and S.

Descend.

70.00 Enter heavy timber, bears N. and S.

72.10 Hollow, 300 ft. deep, course N.

Ascend.

79.88 The cor. of secs. 10+11-14 and 15.

Land, mountainous.

Soil, clay and loose rock, 12 to 16 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land on 79.88 chs.

July 20: At this cor. I set off  $20^{\circ}39'N.$  on the decl. arc, and at Oh. 6m., pm., l.m.t., observe the sun on the meridian, the resulting lat. is  $40^{\circ}39'N.$ 

North, bet, secs. 10 and 11.

Ascend over mountainous land, through heavy timber.

11.50 Spur, projects NE.

Descend abruptly.

21.00 Hollow, 250 ft. deep, course NW.

Ascend, leave heavy timber, bears NW. and SE. Enter scattering timber and dense undergrowth.

Spur, projects W.

Descend.

33.00 Hollow, 100 ft. deep, course SW.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

## CHAINS

Ascend.

38.00 Spur, projects W.

Descend.

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked  
 $\frac{1}{4}$  S 10 | S 11  
1912  
and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

44.50 Hollow, 100 ft. deep course SW.

Ascend.

47.40 Spur, projects SW.

Descend.

52.50 Hollow, 100 ft. deep, course SW.

Ascend.

63.80 Spur, projects SW.

Descend.

68.00 Hollow, 100 ft. deep, course SW.

Ascend.

74.50 Ridge, bears NW. and SE.

Descend.

80.00 Set an iron post, 36 ins. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 2-3-10 and 11, with brass cap marked

T 2 S R 10 W

S 3	S 2
+	
S 10	S 11

1912

from which

A cedar, 10 ins. diam., bears N.  $42^{\circ}$  E., 102 lks. dist., marked T 2 S R 10 W S 2 BT.

A cedar, 8 ins. diam., bears S.  $80^{\circ}30'$  E., 38 lks. dist., marked T 2 S R 10 W S 11 BT.

A cedar, 6 ins. diam., bears S.  $76^{\circ}$  W., 11 lks. dist., marked T 2 S R 10 W S 10 BT.

A cedar, 4 ins. diam., bears N.  $27^{\circ}$  W., 18 lks. dist.,

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

marked T 2 S R 10 W S 3 BT.

Land, mountainous.

Soil, clay and loose rock, 24 ins. deep, 3rd rate.

Subsoil, clay.

Undergrowth, sage brush and grass.

Timber, cedar.

Mountainous land on 80.00 chs.

July 20, 1912.

July 22: At 8h. 6m. a.m., l.m.t., I set off  $40^{\circ}40'N.$  on the lat. arc,  $20^{\circ}12'N.$  on the decl. arc, and determine a meridian with the solar at the cor. of secs. 2-3-10 and 11.

Thence I run

 $N.89^{\circ}56'E.$ , on a random line

Bet. secs. 2 and 11.

40.00 Set temp. &amp; sec. cor.

79.90 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 1-2-11 and 12.

Thence I run

 $S.89^{\circ}58'W.$ , on a true line

Bet. secs. 2 and 11.

Ascend over mountainous land through heavy timber.

1.60 Spur, projects S..

Descend.

5.30 Hollow, 50 ft. deep, course SE.

Ascend.

35.10 Ascend abruptly over sandstone ledges, 200 ft. high, bears NE. and SW.

36.00 Top of ledges.

37.90 Cedar Ridge, 600 ft. high, bears NE. and SW.

Descend abruptly. Leave heavy timber, bears NE. and SW.

Enter scattering timber and dense undergrowth.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

## CHAINS

✓  
39.95 Set an iron post, 36 ins. long, 1 in. in diam., 14 ins. in the ground, surrounded by a mound of earth and stone, for the  $\frac{1}{4}$  sec: cor., with brass cap, marked

$\frac{1}{4}$  S 2

S 11

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Note: On account of natural obstacles it is impossible to set this cor. over 14 ins. in the ground.

63.30 Hollow, 400 ft. deep, course NW.

Ascend.

69.00 Spur, projects NW.

Descend.

79.50 Head of hollow, 50 ft. deep, course NW.

Ascend.

79.90 The cor. of secs. 2-3-10 and 11.

Land, mountainous.

Soil, clay and loose rock, 14 ins. deep, 3rd rate.

Subsoil, gravel and loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land on 79.90 chs.

July 22: At this cor. I set off  $20^{\circ}15'N.$  on the decl. arc, and at 0h. 6m., p.m., 1.m.y., observe the sun on the meridian, the resulting lat. is  $40^{\circ}40'N.$

North, on a random line

Bet. secs. 2 and 3.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.42 Intersect N. bdy. of Tp. 211ks. w. of the cor. of secs. 2-3-34 and 35, heretofore described.

Thence I run

S.  $0^{\circ}09'W.$ , on a true line

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS	
	Bet. secs. 2 and 3.
	Descend over mountainous land, through scattering timber and dense undergrowth.
2.50	Hollow, 50 ft. deep, course SW.
	Ascend.
4.30	Spur, projects NW.
	Descend.
7.00	Hollow, 50 ft. deep, course NW.
	Ascend.
15.60	Ascend abruptly over sand stone ledges, 50 ft. high, bears NW. and SE.
17.20	Ridge, bears NW. and SE.
	Descend abruptly. Leave ledges bears NW. and SE.
40.42	Set an iron post, 36 ins. long, 1 in. in diam., 14 ins. in the ground, surrounded by a mound of earth and stone, for $\frac{1}{4}$ sec. cor., with brass cap, marked
	$\frac{1}{4}$ S 3.   S 2. /
	1912
	and raise a mound of stone, 2 ft base, $1\frac{1}{2}$ ft. high, W. of cor.
	Note: On account of natural obstacles it is impossible to set this cor. over 14 ins. in the ground.
43.00	Hollow, 500 ft. deep, course SW.
	Ascend abruptly.
48.00	Spur, projects W.
	Descend.
52.10	Hollow, 100 ft. deep, course SW.
	Ascend.
58.00	Spur, projects W.
	Descend.
70.50	Hollow, 120 ft. deep, course NW.
	Ascend.
75.00	Spur, projects W.
	Descend.
79.80	Hollow, 175 ft. deep, course NW.
	Ascend.
80.42	The cor. of secs. 2-3-10 and 11.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

Land, mountainous.

Soil, clay and loose rock, 14 to 24 ins. deep, 3rd rate.

Subsoil, clay and loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land on 80.42 chs.

July 22, 1912.

Claude L. Hest.

U.S. Transitman.

Survey commenced July 21, 1912, and executed with the instrument described in book "A" of this survey. I examine the adjustments of the transit, and correct the level and collimation errors: then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m., and p.m., hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of secs. 33 and 34, on the S. bdy. of the Tp., heretofore described, in approximate latitude,  $40^{\circ}35'38''N.$ , longitude,  $112^{\circ}58'36''W.$ , I set off  $40^{\circ}36'N.$ , on the dia. arc,  $20^{\circ}26'N.$  on the decl. arc, and at 4h. 6m., p.m., l.m.t., determine with the solar a meridian and mark a point there of, on a stone firmly set in the ground, 5 chs. N. of my station.

At 11h. 34m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

July 21, 1912.

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

July 22: At 7.30 a.m., l.m.t., I lay off the azimuth of Polaris,  $1^{\circ}31'$  to the west, and mark the meridian thus determined, by cutting a small groove in the stone set July 10, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8h. 6m., a.m., l.m.t., I set off  $40^{\circ}36'N.$ , on the lat. arc,  $20^{\circ}18'N.$  on the decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set, 5 chs. N. of my station: this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m., observations, defines positions for meridians, respectively, about  $0'21''$  west, and  $0'16''$  east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h. 30m, a.m., is N. $16^{\circ}30'W.$ , the angle thus determined gives the mag. decl.  $16^{\circ}30'E.$

Thence I run

North, bet. secs. 33 and 34.

Descend over mountainous land, through scattering timber and dense undergrowth.

10.00 Hollow, 315 ft. deep, course NW.

Ascend.

23.80 Spur, projects W.

Descend.

27.00 Head of hollow, 150 ft. deep, course W.

Ascend.

32.00 Ridge, bears NW. and SE.

Descend abruptly.

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$ S 33	S 34
--------------------	------

1912

dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist., and

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

- raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 42.00 Hollow, 500 ft. deep, course NW.  
Ascend abruptly over broken sand stone ledges.
- 60.60 Ridge, bears NW. and SE.  
Descend.
- 65.00 Hollow, 200 ft. deep, course NW.  
Ascend.
- 76.00 Ridge, bears NW. and SE.  
Descend.
- 80.00 Set an iron post, 36 ins. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 27-28-33 and 34, with brass cap, marked.

T 2 S R 10 W

S 28		S 27
+		
S 33		S 34

1912

dig pits,  $18 \times 18 \times 12$  ins. in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous.

Soil, clay and loose rock, 24 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land or land covered with dense undergrowth or 80.00 chs.

July 22: At this cor. I set off  $20^{\circ}15'N.$  on the decl. arc, and at 9h.6m., p.m., 1.m.t., observe the sun on the meridian, the resulting lat. is  $40^{\circ}36'30''N.$

$S.69^{\circ}52\frac{1}{2}'E.$ , on a random line,

Bet. secs. 27 and 34.

40.00 Set a temp.  $\frac{1}{2}$  sec. cor.

79.92 Intersect N. and S. line, 17 lks. W. of the cor. of secs. 26-27-34 and 35.

Thence I run

CHAINS	
	N. $89^{\circ}45'W.$ , on a true line
	Bet. secs. 27 and 34.
	Ascend over mountainous land, through scattering timber and dense undergrowth.
6.10	Cedar, Ridge, bears N. and S.
	Descend abruptly.
19.00	Hollow, 500 ft. deep, course SW.
	Ascend,
34.80	Spur, projects S.
	Descend, abruptly.
39.96	Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor., with brass cap, marked

$\frac{1}{4}$  S 27.

---

S 34.

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

44.00	Enter heavy timber, bears NW. and SE.
62.00	Same hollow, 500 ft. deep, course NW.
	Ascend abruptly.
65.00	Leave heavy timber, bears NW. and SE., enter scattering timber and dense undergrowth.
79.92	The cor. of secs. 27-28-33 and 34.
	Land, mountainous.
	Soil, clay and loose rock, 24 ins. deep, 3rd rate.
	Subsoil, loose rock.
	Timber, cedar.
	Undergrowth, sage brush and grass.
	Mountainous land on 79.92 chs.

July 22, 1912.

July 23: At 8h. 6m., a.m., l.m.t., I set off  $40^{\circ}36'30''N.$ , on the lat. arc,  $20^{\circ}06'N.$  on the decl. arc, and determine a meridian with the solar at the cor. of secs. 27-28-33 and

## CHAINS

Thence I run  
North, bet. secs. 27 and 28.  
Descend over mountainous land, through scattering timber  
and dense undergrowth.

4.70 Hollow, 400 ft. deep, course NW.  
Ascend abruptly.

23.10 Spur, projects NW.  
Descend abruptly.

29.00 Hollow, 200 ft. deep, course W.  
Ascend.

36.92 Ridge, bears E. and W.  
Descend.

40.00 Set an iron post, 36 ins. long, 1 in. in diam. 14 ins. in the  
ground, surrounded by a mound of earth and stone, for the  
 $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$ S 28	S 27	/
--------------------	------	---

1912

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high. W, of cor.

Note: On account of natural obstacle it is impossible to set  
this cor. over 14 ins. in the ground.

60.50 Hollow, 350 ft. deep, course NW.

Ascend.

66.40 Ridge, bears NW. and SE.

Descend.

80.00 Set an iron post, 36 ins. long, 2 ins. in diam., 16 ins. in the  
ground, surrounded by a mound of earth and stone, for the  
cor. of secs. 21-22-27 and 28, with brass cap, marked

T 2 S R 10 W		
--------------	--	--

S 21	S 22	/
S 28	S 27	

1912

from which

A cedar, 6 ins. diam., bears N.  $32^{\circ}30'E.$ , 78 lks. dist.,  
marked T 2 S R 10 W S 22 BT.

A cedar, 6 ins. diam., bears S.  $62^{\circ}E.$ , 57 lks. dist.,

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS	<p>marked T 2 S R 10 W S 27 BT.</p> <p>A cedar, 8 ins. diam., bears S. <math>85^{\circ}</math> W., 137 lks. dist., marked T 2 S R 10 W S 28 BT.</p> <p>A cedar, 10 ins. diam., bears N. <math>22^{\circ}</math> W., 19 lks. dist., marked T 2 S R 10 W S 21 BT.</p> <p>Note: On account of natural obstacles it is impossible to set this cor. over 16 ins. in the ground.</p> <p>Land, mountainous.</p> <p>Soil, clay and loose rock, 16 to 24 ins. deep, 3rd rate.</p> <p>Subsoil, loose rock.</p> <p>Timber, cedar.</p> <p>Undergrowth, sage brush and grass.</p> <p>Mountainous land or land covered with dense undergrowth on 80.00 chs.</p> <p>July 23: At this cor I set off <math>20^{\circ}03'</math> N. on the decl. arc, and at Oh. 6m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is <math>40^{\circ}37'</math> N.</p> <hr/> <p>S. <math>89^{\circ}45'</math> E., on a random line</p> <p>Bet. secs. 22 and 27.</p> <p>Set temp. <math>\frac{1}{4}</math> sec. cor.</p> <p>Intersect N. and S. line, 7 lks. S. of the cor. of secs. 22-23 &amp; 26 and 27.</p> <p>Thence I run</p> <p>N. <math>89^{\circ}48'</math> W., on a true line</p> <p>Bet. secs. 22 and 27.</p> <p>Descend over mountainous land, through dense undergrowth.</p> <p>Hollow, 150 ft. deep, course NW.</p> <p>Ascend.</p> <p>Ridge, bears NW. and SE.</p> <p>Descend.</p> <p>Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the <math>\frac{1}{4}</math> sec. cor., with brass cap, marked</p>
40.00	
79.90	
.50	
9.00	
39.95	

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

 $\frac{1}{4}$  S 22

S 27

1912

- and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
 46.00 Hollow, 500 ft. deep, course NW.  
 50.00 Same hollow, course SW.  
 60.00 Same hollow, course NW.  
 Ascend.  
 70.00 Spur, projects NW.  
 Descend. Enter scattering timber bears NW. and SE.  
 79.90 The cor. of secs. 21-22-27 and 28.  
 Land, mountainous.  
 Soil, clay and loose rock, 24 ins. deep, 3rd rate.  
 Subsoil, clay and loose rock.  
 Timber, cedar.  
 Undergrowth, sage brush and grass.  
 Mountainous land or land covered with dense undergrowth  
 on 79.90 chs.

July 23, 1912.

- July 24: At 8h. 6m., a.m., l.m.t., I set off  $40^{\circ}37'N.$ , on the  
 elat. arc,  $19^{\circ}53'N.$  on the decl. arc, and determine a meridian  
 with the solar at the cor. of secs. 21-22-27 and 28.  
 Thence I run  
 North, bet. secs. 21 and 22.  
 Descend over mountainous land, through scattering timber  
 and dense undergrowth.  
 8.00 Descend abruptly over granite ledges 75 ft. high bears  
 E. and W.  
 13.00 Rocky hollow, 190 ft. deep, course SW.  
 Ascend.  
 23.80 Ridge, bears W. and SE.  
 Descend abruptly.

## SUBDIVISIONS OF T.2 S., R.10 W

## CHAINS

- 35.50 Hollow, 250 ft. deep, course SW.  
Ascend abruptly.
- 40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked
- |                    |      |
|--------------------|------|
| $\frac{1}{4}$ S 21 | S 22 |
|--------------------|------|
- 1912
- from which
- A cedar, 10 ins. diam., bears S.54° E., 24 lks. dist., marked  $\frac{1}{4}$  S 22 BT.
- A cedar, 10 ins. diam., bears S.24°30' W., 13 lks. dist., marked  $\frac{1}{4}$  S 21 BT.
- 51.00 Spur, projects SW.  
Descend.
- 63.50 Rocky hollow, 100 ft. deep, course SW.  
Ascend.
- 66.70 Ridge, bears E. and W.  
Descend.
- 70.30 Head of hollow, 150 ft. deep, course W.  
Ascend.
- 79.50 Ridge, bears E. and W.  
Descend.
- 80.00 Set an iron post, 36 ins. long, 2 ins. in diam., 16 ins. in the ground, surrounded by a mound of earth and stone, for the cor. cf secs. 15-16-21 and 22, with brass cap, marked

T 2 S R 10 W

S 16	S 15
S 21	S 22

1912 ✓

from which

A cedar, 8 ins. diam., bears N.30° E., 118 lks. dist., marked T 2 S R 10 W S 15 BT.

A cedar, 6 ins. diam., bears N.25°30' W., 91 lks. dist., marked T 2 S R 10 W S 16 BT.

no other trees available, raise a mound of stone, 2 ft. base,

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS	<p><math>1\frac{1}{2}</math> ft. high, W. of cor.</p> <p>Note: On account of natural obstacles it is impossible to set this cor. over 16 ins. in the ground.</p> <p>Land, mountainous.</p> <p>Soil, clay and loose rock, 16 to 24 ins. deep, 3rd rate.</p> <p>Subsoil, loose rock.</p> <p>Timber, cedar.</p> <p>Undergrowth, sage brush and grass.</p> <p>Mountainous land, or land covered with dense undergrowth on 80.00 chs.</p> <p>July 24: At this cor. I set off <math>19^{\circ}50'N.</math>, on the decl. arc, and at Oh. 6m.p.m., 1.m.t., observe the sun on the meridian, the resulting lat. is <math>40^{\circ}38'N.</math></p>
40.00	<p>S. <math>89^{\circ}48'E.</math>, on a random line</p> <p>Bet. secs. 15 and 22.</p> <p>Set temp. <math>\frac{1}{4}</math> sec. cor.</p>
79.98	<p>Int. rsect N. and S. line, 7 lks. S. of the cor. of secs. 14-15-22 and 23.</p> <p>Thence I run</p> <p>N. <math>89^{\circ}51'W.</math>, on a true line</p> <p>Bet. secs. 15 and 22.</p> <p>Descend over mountainous land, through scattering timber and dense undergrowth.</p>
7.90	<p>Hollow, 75 ft. deep, course NW.</p> <p>Ascend.</p>
15.10	<p>Ridge, bears NW. and SE.</p> <p>Descend.</p>
39.99	<p>Set an iron post, 36 ins. long, 1 in. in diam., 14 ins. in the ground, surrounded by a mound of earth and stone, for the <math>\frac{1}{4}</math> sec. cor., with brass cap, marked</p> <p>: <math>\frac{1}{4}</math> S 15</p> <p>—  </p> <p>S 22</p>

## SUBDIVISIONS OF T. 2 S., R. 10 W.

## CHAINS

and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high. N. of cor.  
 Note: On account of natural obstacles it is impossible to set this cor. over 14 ins. in the ground.

61.00 Hollow, 240 ft. deep, course NW.  
 Ascend.

70.65 Spur, projects N.  
 Descend.

79.98 The cor. of secs. 15-16-21 and 22.  
 Land, mountainous.  
 Soil, clay and loose rock, 16 ins. deep, 3rd rate.  
 Subsoil, loose rock.  
 Timber, cedar.  
 Undergrowth, sage brush and grass.  
 Mountainous land on 79.98 chs.

July 24, 1912.

July 25: At 8h. Gm. a.m., 1.m.t., I set off  $40^{\circ}38'N.$ , on the lat. arc,  $19^{\circ}41'W.$  on the decl. arc, and determine a meridian with the solar at the cor. of secs. 15-16-21 and 22.

Thence I run

North, bet. secs. 15 and 16.

Descend over mountainous land, through heavy timber.

20.00 Hollow, 300 ft. deep, course NW.

Ascend abruptly.

24.00 Spur, projects NW.

Descend.

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 16 | S 15

1912

from which

A cedar, 10 ins. diam., bears S.  $80^{\circ}E.$ , 98 lks. dist., marked  $\frac{1}{4}$  S 15 BT.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

- A cedar, 8 ins. diam., bears S.  $49^{\circ}30'W.$ , 58 lks. dist., marked  $\frac{1}{4}$  S 16 BT.
- 53.00 Hollow, 100 ft. deep, course NW.  
Ascend.
- 57.20 Spur, projects NW.  
Descend.
- 66.50 Hollow, 100 ft. deep, course W.  
Ascend.
- 71.80 Ridge, bears E. and W.  
Descend. Leave heavy timber, bears E. and W., enter scattering timber and dense undergrowth..
- 80.00 Set an iron post, 36 ins. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 9-10-15 and 16, with brass cap, marked

T 2 S R 10 W

S 9	S 10
S 16	S 15

1912

from which

A cedar, 6 ins. diam., bears N:  $56^{\circ}E.$ , 145 lks. dist., marked T 2 S R 10 W S 10 BT.

A cedar, 8 ins. diam., bears S.  $44^{\circ}30'E.$ , 319 lks. dist., marked T 2 S R 10 W S 15 BT.

A cedar, 5 ins. diam., bears S.  $32^{\circ}30'W.$ , 421 lks. dist., marked T 2 S R 10 W S 16 BT.

A cedar, 6 ins. diam., bears N.  $15^{\circ}30'W.$ , 46 lks. dist., marked T 2 S R 10 W S 9 BT.

Land, mountainous.

Soil, clay and loose rock, 24 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land on 80.00 chs.

July 25: At this cor. I set off  $19^{\circ}38'N.$  on the decl. arc,

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

and at 4h.6m.p.m., l.m.t., observe the sun on the meridian,  
the resulting lat. is  $40^{\circ}39'N.$

- S.  $89^{\circ}51'E.$ , on a random line  
Bet. secs. 10 and 15.  
40.00 Set temp.  $\frac{1}{2}$  sec. cor.  
80.02 Intersect N. and S. line, 7 lks. S. of the cor. of secs.  
10-11-14 and 15.  
Thence I run  
N.  $89^{\circ}54'W.$ , on a true line  
Bet. secs. 10 and 15.  
Ascend over mountainous land, through heavy timber.  
6.30 Leave heavy timber, bears N. and S., enter scattering timber  
and dense undergrowth.  
13.00 Spur, projects N.  
Descend.  
18.60 Head of hollow, 50 ft. deep, course N.  
Ascend.  
20.00 Enter heavy timber, bears N. and S.  
23.50 Spur, projects NW.  
Descend.  
31.10 Hollow, 150 ft. deep, course NW.  
Ascend.  
40.01 Spur, projects NW.  
Descend.  
Set an iron post, 36 inc. long, 1 in. in diam., 26 ins. in the  
ground for the  $\frac{1}{2}$  sec. cor.; with brass cap, marked  
 $\frac{1}{2} S 10$   
—  
S 15  
1912  
from which  
A cedar, 5 ins. diam., bears S.  $27^{\circ}30'E.$ , 68 lks. dist.,  
marked  $\frac{1}{2} S 15 BT.$

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS	
	A cedar, 6 ins. diam., bears N. $43^{\circ}30'W.$ , 28 lks. dist., marked $\frac{1}{4}$ S 10 BT. 30-01 sec. 116-01
54.50	Hollow, 100 ft. deep, course NW.
	Ascend.
59.60	Spur, projects NW.
	Descend.
72.75	Head of hollow, 75 ft. deep, course N.
	Ascend.
74.85	Spur, projects N.
✓	Descend. Leave heavy timber, bears N. and S., enter scattering timber and dense undergrowth.
80.02	The cor. of secs. 9-10-15 and 16.
	Land, mountainous.
	Soil, clay and loose rock, 24 ins. deep, 3rd rate.
	Subsoil, clay and loose rock.
	Timber, cedar.
	Undergrowth, sage brush and grass.
	Mountainous land on 80.02 chs.
	July 25, 1912.
1.50	July 26: At 8h. 6m., a.m., l.m.t., I set off $40^{\circ}39'N.$ on the lat. arc, $19^{\circ}27'N.$ on the decl. and determine a meridian with the solar at the cor. of secs. 9-10-15 and 16.
	Thence I run
	North, bet. secs. 9 and 10.
	Descend over mountainous land, through scattering timber and dense undergrowth.
25.00	Enter heavy timber, bears NW. and SE.
	Hollow, 175 ft. deep, course NW.
	Ascend.
28.30	Spur, projects SW.
	Descend.
35.00	Hollow, 200 ft. deep, course SW.
	Ascend.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$$\frac{1}{4} S 9 \quad S 10$$

1912

from which

A cedar, 4 ins. diam., bears N.  $20^{\circ}$  E., 83 lks. dist., marked  $\frac{1}{4} S 10$  BT.

A cedar, 14 ins. diam., bears N.  $31^{\circ}$  W., 93 lks. dist., marked  $\frac{1}{4} S 9$  BT.

47.20 Spur, projects W.

Descend.

56.00 Leave heavy timber, bears NE. and SW. Enter scattering timber and dense undergrowth.

59.00 Leave mountainous land, bears NW. and SE, enter gently rolling foot hills.

80.00 Set an iron post, 36 ins. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 3-4-9 and 10, with brass cap marked

T 2 S R 10 W

$$S 4 \quad S 3$$

$$S 9 \quad S 10$$

1912

dig pits, 18x18x12 ins. in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, rolling and mountainous.

Soil, clay and loose rock, 24 ins. deep, 3rd rate, on mountainous portion, clay and sandy loam, 24 ins. deep, 2nd rate, on rolling portion. Subsoil, clay.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land on 59.00 chs.

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

	S. $89^{\circ}54' E.$ , on a random line
	Bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 7 lks. S. of the cor. of secs. 2-3-10 and 11.
	July 26: At this cor. I set off $19^{\circ}25' N.$ on the decl. arc, and at 0h. 6m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ}40' N.$
	Thence I run N. $89^{\circ}57' W.$ , on a true line
	Bet. secs. 3 and 10.
	Descend over mountainous land, through scattering timber and dense undergrowth.
1.00	Hollow, 50 ft. deep, course NW.
	Ascend.
8.70	Spur, projects NW.
	Descend.
40.01	Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap, marked
	$\frac{1}{4} S 3$
	—
	S 10
	1912
	A cedar, 8 ins. diam., bears N. $90^{\circ} E.$ , 9 lks. dist., marked $\frac{1}{4} S 3 BT.$
	A cedar, 16 ins. diam., bears S. $73^{\circ} W.$ , 59 lks. dist., marked $\frac{1}{4} S 10 BT.$
41.00	Hollow, 150 ft. deep, course NW.
	Ascend.
50.50	Spur, projects NW.
	Descend.
65.70	Hollow, 100 ft. deep, course NW.
	Ascend.
73.00	Spur, projects NW.
	Descend.

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

- 74.00 Leave mountainous land, bears NW. and SE. Enter gently rolling bench land, Leave scattering timber, bears NW. and SE.
- ✓ 80.02 The cor. of secs. 3-4-9 and 10.  
Land, mountainous and rolling.  
Soil, clay and loose rock, 24 ins. deep, 3rd rate, on mountainous portion, clay and sandy loam, 24 ins. deep, 2nd rate on the rest.  
Subsoil, clay.  
Timber, cedar.  
Undergrowth, sage brush and grass.  
Mountainous land on 74.00 chs.
- 
- North, on a random line  
Bet. secs. 3, and 4.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.32 Intersect the N. bdy. of the Tp. 14 lks. W. of the cor. of secs. 3-4-33 and 34, heretofore described.  
Thence I run  
S.  $0^{\circ}06'W.$ , on a true line  
Bet. secs. 3 and 4.  
Over gently rolling land through scattering timber and dense undergrowth.
- 33.30 Wash, 3 chs. wide, 35 ft. deep, course W.
- 40.32 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked
- |                   |     |
|-------------------|-----|
| $\frac{1}{4}$ S 4 | S 3 |
|-------------------|-----|
- 1912
- dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, 3  $\frac{1}{2}$  ft. base, 1  $\frac{1}{2}$  ft. high, W. of cor.
- 40.85 Wash, 1 ch. wide, 10 ft. deep, course W.
- 61.35 Wash, 5 chs. wide, 20 ft. deep, course NW.
- 80.32 The cor. of secs. 3-4-9 and 10.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

Land, rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate.  
Subsoil, clay.

Timber, cedar.

Undergrowth, sage brush and grass.

Dense undergrowth on 80.32 chs.

July 26, 1912

John R. Stewart

John R. Stewart  
 U.S. Surveyor  
 July 26, 1912

July 23--At 8h-6m., a.m.l.m.t., I set off  $40^{\circ}36'N.$ , on the lat.arc,  $20^{\circ}06'N.$ , on the decl.arc, and determine a meridian with the solar at the cor.of secs.32 and 33, on the S. bdy.of the Tp., heretofore described.

Thence I run N.0°01' W., betsecs.32 and 33.

Descend over mountainous land, through heavy timber.

- 18.00 Hollow, 200 ft. deep, course NW.
- 28.00 Ascend. Leave heavy timber, bears NW. and SE. Enter scattering timber and dense undergrowth.
- 40.00 Ridge, bears NW. and SE.
- Descend.
- Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{2}$  sec.cor., with brass cap, marked

$\frac{1}{2}$  S 32 | S 33

1912

from which

A cedar, 8 ins. diam., bears S.  $67^{\circ}30'E.$ , 75 lks.dist., marked  $\frac{1}{4}$  S 33 BT.

A cedar, 10 ins. diam., bears N.  $88^{\circ}W.$ , 89 lks.dist., marked  $\frac{1}{4}$  S 32 BT.

48.00 Hollow, 250 ft. deep, course NW.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS	
	Ascend.
55.00	Spur, projects NW.
	Descend.
67.00	Hollow, 75 ft. deep, course NW.
	Ascend.
75.00	Spur, projects W.
	Descend.
✓ 80.00	Set an iron post, 36 ins. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 28-29-32 and 33, with brass cap, marked

T. 2 S R 10 W

S 29	S 28
—	—
S 32	S 33

1912

from which

A cedar, 5 ins. diam., bears N.  $55^{\circ}$  E., 40 lks. dist., marked T 2 S R 10 W S 28 BT.

A cedar, 5 ins. diam., bears S.  $36^{\circ}$  E., 91 lks. dist., marked T 2 S R 10 W S 33 BT.

A cedar, 4 ins. diam., bears S.  $44^{\circ}$  W., 70 lks. dist., marked T 2 S R 10 W S 32 BT.

A cedar, 4 ins. diam., bears N.  $64^{\circ}$  W., 48 lks. dist., marked T 2 S R 10 W S 29 BT.

Land, mountainous.

Soil, clay and loose rock, 24 ins. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land on 80.00 chs.

July 23: At this cor. I set off  $20^{\circ}03'N.$ , on the decl. arc, and at Oh. 6m. p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $40^{\circ}36'30''N.$

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

- S.  $89^{\circ}54'$ E., on a random line  
Bet. secs. 28 and 33.  
Set temp.  $\frac{1}{4}$  sec. cor.  
Intersect N. and S. line, 3 lks. N. of the cor. of secs. 27-28-  
33 and 34.  
Thence I run  
N.  $89^{\circ}53'$ W., on a true line  
Bet. secs. 28 and 33.  
Ascend over mountainous land, through scattering timber  
and dense undergrowth.  
Ridge, bears NW. and SE.  
Descend. Enter heavy timber, bears NW. and SE.  
Hollow, 200 ft. deep, course NW.  
Ascend.  
Ridge, bears NW. and SE.  
Descend.  
Set an iron pest, 36 ins. long, 1' in. in diam., 26 ins. in the  
ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked  
1912  
S 28  
1912  
S 33  
from which  
A cedar, 4 ins. diam., bears S.  $39^{\circ}30'$ W., 52 lks. dist.,  
marked  $\frac{1}{4}$  S 33 BT.  
A cedar, 6 ins. diam., bears N.  $15^{\circ}45'$ W., 24 lks. dist.,  
marked  $\frac{1}{4}$  S 28 BT.  
Hollow, 75 ft. deep, course NW.  
Leave heavy timber, bears NW. and SE. Enter scattering timber  
and dense undergrowth.  
The cor. of secs. 28-29-32 and 33.  
Land, mountainous.  
Soil, clay and loose rock, 24 ins. deep, 3rd rate.  
Subsoil, loose rock.  
Timber, cedar.  
Undergrowth, sage brush and grass.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

Mountainous land on 79.86 ehs.

July 23, 1912.

July 24: At 8h.6m., a.m., l.m.t., I set off  $40^{\circ}36'30''N.$ , on the lat.arc,  $49^{\circ}53'N.$ , on the decl.arc, and determine a meridian with the solar at the cor.of secs. 28-29-32 and 33.

Thence I run

 $N.0^{\circ}01'W.$ , bet. secs. 28 and 29.

Descend over mountainous land, through scattering timber and dense undergrowth.

15.00 Hollow, 50 ft. deep, course SW.

Ascend.

23.50 Ridge, bears E. and W.

Descend.

31.00 Hollow, 50 ft. deep, course SW.

Ascend.

36.00 Ridge, bears E. and W.

Descend.

40.00 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec.cor., with brass cap, marked $\frac{1}{4} S 29 | S 28$ 

1912

from which

A cedar, 6 ins. diam., bears  $S.25^{\circ}E.$ , 89 lks.dist., marked  $\frac{1}{4} S 28$  BT.A cedar, 7 ins. diam., bears  $S.70^{\circ}W.$ , 46 lks.dist., marked  $\frac{1}{4} S 29$  BT.

54.00 Hollow, 50 ft. deep, course SW.

Ascend.

67.00 Spur, projects SW.

Descend.

77.00 Head of hollow, 30 ft. deep, course SW.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS					
80.00	<p>Ascend.</p> <p>Set an iron post, 36 ins. long, 2 ins. diam., 24 ins. in the ground for the cor. of secs. 20-21-28 and 29, with brass cap, marked</p>				
	<p>T 2 S R 10 W</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>S 20</td> <td>S 21</td> </tr> <tr> <td>S 29</td> <td>S 28</td> </tr> </table> <p>1942</p>	S 20	S 21	S 29	S 28
S 20	S 21				
S 29	S 28				
	<p>from which</p> <p>A cedar, 8 ins. diam., bears N.47°E., 33 lks. dist., marked T 2 S R 10 W S 21 BT.</p> <p>A cedar, 6 ins. diam., bears S.21°E., 92 lks. dist., marked T 2 S R 10 W S 28 BT.</p> <p>A cedar, 5 ins. diam., bears S.44°W., 191 lks. dist., marked T 2 S R 10 W S 29 BT.</p> <p>A cedar, 4 ins. diam., bears N.41°W., 47 lks. dist., marked T 2 S R 10 W S 20 BT.</p> <p>Land, mountainous.</p> <p>Soil, clay and loose rock, 24 ins. deep, 3rd rate.</p> <p>Subsoil, loose rock.</p> <p>Timber, cedar.</p> <p>Undergrowth, sage brush and grass.</p> <p>Mountainous land on 80.00 chs.</p> <p>July 24: At this cor. I set off 19°50'N., on the decl. arc, and at Oh.6m., p.m., l.m.t., observed the sun on the meridian, the resulting lat. is 40°37'N.</p> <hr/> <p>July 25: At 19°50'N., on the decl. arc, and at 19°53'E., on a random line, Bet. secs. 21 and 28.</p> <p>Set temp. <math>\frac{1}{4}</math> sec. cor.</p> <p>Intersect N. and S. line, at the cor. of secs. 21-22-27 and 28.</p> <p>Thence I run</p>				
40.00					
79.88					

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS	
	N.89°53'W., on a true line.
	Bet. secs. 21 and 28. Look N. 10° E., 100 ft. dist.
	Descend over mountainous land, through scattering timber and dense undergrowth.
11.50	Hollow, 250 ft. deep, course NW. open and 1/2 sec. cor.
	Ascend. Bear S. 10° E., 100 ft. dist. to a large tree.
15.00	Spur, projects NW.
	Descend.
33.50	Hollow, 250 ft. deep, course SW.
	Ascend.
39.94	Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor., with brass cap marked
	A cedar, 6 ins. diam., bears S. 40° E., 93 lks. dist., marked $\frac{1}{4}$ S 21 BT.
	<u>S 28</u>
	1912
	from which a cedar, 4 ins. diam., bears N. 12° W., 94 lks. dist., marked $\frac{1}{4}$ S 21 BT.
40.00	Ridge, bears NE. and SW.
	Descend.
79.88	The cor. of secs. 20-21-28 and 29.
	Land, mountainous.
	Soil, clay and loose rock, 24 ins. deep, 3rd rate.
	Subsoil, loose rock, 100 ft. and 60 ft. apart, 1st rate.
	Timber, cedar.
	Undergrowth, sage brush and grass.
	Mountainous land or land covered with dense undergrowth on 79.88 chs.

July 24, 1912.

John M. Jones



## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

	marked T 2 S R 10 W S 16 BT.
	A cedar, 20 ins. diam., bears S. $19^{\circ}30' E.$ , 29 lks. dist., marked T 2 S R 10 W S 21 BT.
	A cedar, 7 ins. diam., bears S. $41^{\circ}W.$ , 56 lks. dist., marked T 2 S R 10 W S 20 BT.
	A cedar, 16 ins. diam., bears N. $41^{\circ}W.$ , 38 lks. dist., marked T 2 S R 10 W S 17 BT.
	Land, mountainous.
	Soil, clay and loose rock, 24 ins. deep, 3rd grade.
	Subsoil, loose rock.
	Timber, cedar.
	Undergrowth, sage brush and grass.
	Mountainous land, or land covered with dense undergrowth on 80.00 chs.
	July 25: At this cor. I set off $19^{\circ}38' N.$ , on the decl. arc, and at OH. 6m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $40^{\circ}38' N.$
	S. $89^{\circ}53' E.$ , on a random line
	Bet. secs. 16 and 21.
40.00	Set temp. + sec.cor.
79.84	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 15-16-21 and 22.
	Thence I run N. $89^{\circ}52' E.$ across the line old 16 to 21, and N. $89^{\circ}52' W.$ , on a true line
	Bet. secs. 16 and 21.
	Descend over mountainous land, through heavy timber.
5.00	Head of hollow, course NW.
	Ascend.
19.00	Ridge, bears NW. and SE.
	Descend.
39.50	Hollow, 150 ft. deep, course NW.
	Ascend.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

## CHAINS

39.92 Set an iron post, 36 ins. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 16

S 21

1912

from which

A cedar, 5 ins. diam., bears N.  $77^{\circ}30' E.$ , 30 lks. dist.,

marked  $\frac{1}{4}$  S 16 BT.

A cedar, 5 ins. diam., bears S.  $23^{\circ} W.$ , 64 lks. dist.,

marked  $\frac{1}{4}$  S 21 BT.

41.00 Leave heavy timber, bears NW. and SE.

79.84 The cor. of secs. 16-17-20 and 21.

Land, mountainous.

Soil, clay and loose rock, 24 in. deep, 3rd rate.

Subsoil, loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land on 79.84 chs.

July 25, 1912.

July 26: At 8h. 6m., a.m., l.m.t., I set off  $40^{\circ}38' N.$ , on the lat. arc,  $19^{\circ}27' N.$ , on the decl. arc, and determine a meridian with the solar at the cor. of secs. 16-17-20 and 21.

Thence I run

N.  $0^{\circ}01' W.$ , bet. secs. 16 and 17.

Descend over mountainous land, through scattering timber and dense undergrowth.

10.00 Leave mountainous land, bears NE. and SW. Enter gently rolling bench land.

Wood road, bears NW. and SE.

Leave scattering timber bears NW. and SW.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

- 40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked  
 $\frac{1}{4} S 17 \quad S 16$   
1912  
dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
46.00 Wash, 30 lks. wide, 4 ft. deep, course NW.  
80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground for the cor. of secs. 8-9-16 and 17, with brass cap marked.

T 2 S R 10 W.

S 8	S 9
<hr/>	
S 17	S 16

  
1912

dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
Land, mountainous.

Soil, clay and loose rock, 24 ins. deep, 3rd rate, on mountainous portion, clay and sandy loam, 24 ins. deep, 2nd rate on the rest.

Subsoil, clay and loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land on 10.00 chs.

July 26: At this cor. I set off 19°25'N. on the decl. arc, and at Oh. 6m., p:m., l.m.t., observe the sun on the meridian, the resulting lat. is 40°39'N.

S. 89°52'E., on a random line

Bet. secs. 9 and 16.

40.00

Set temp.  $\frac{1}{4}$  sec. cor.

79.86

Intersect N. and S. line, 5 lks. S. of the cor. of secs. 9-10-15 and 16.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS	
	Thence T run N. $89^{\circ}54'W.$ , on a true line
	Bet. secs. 9 and 16.
	Descend over mountainous land, through scattering timber and dense undergrowth.
30.20	Hollow, 100 ft. deep, course NW.
	Ascend.
38.00	Leave scattering timber, bears NW. and SE.
39.93	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for the $\frac{1}{4}$ sec. cor., with brass cap, marked

 $\frac{1}{4}$  S 9

S 16

1912

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

40.00 Leave mountainous land, bears N. and S. Enter rolling land.

41.70 Wash, 1 ch. wide, 20 ft. deep, course NW.

79.86 The cor. of secs. 8-9-16 and 17.

Land, mountainous and rolling.

Soil, clay and loose rock, 24 ins. deep, 3rd rate, on mountainous portion, sandy clay loam, 24 ins. deep, 2nd rate, on the rest.

Subsoil, clay and loose rock.

Timber, cedar.

Undergrowth, sage brush and grass.

Mountainous land on 40.00 chs.

JULY 26, 1912.

July 27: At 8h.6m., a.m., 1.m.t., I set off  $40^{\circ}39'N.$ , on the lat.arc,  $19^{\circ}14'N.$ , on the decl.arc, and determine a meridian with the solar at the cor. of secs. 8-9-16 and 17.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS

Thence I. run N.,  
dig pits, 18x18x12 ins., and raise a mound of earth, 3 ft. base, 1 ft. high, W. of cor.  
N. 0° 01' W., bet. secs. 8 and 9.

40.00

Over gently rolling bench land, through dense undergrowth.  
Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the  
ground, for the  $\frac{1}{4}$  sec. cor., with brass cap marked

$\frac{1}{4}$	S 8	S 9
---------------	-----	-----

1912

42.50

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and  
raise a mound of earth, 3  $\frac{1}{2}$  ft. base, 1  $\frac{1}{2}$  ft. high, W. of cor.

80.00

Read, bears NE. and SW.

Set an iron post, 3 ft. long, 2 ins. diam., 24 ins. in the  
ground for the cor. of secs. 4-5-8 and 9, with brass cap,  
marked

S 5	S 4
-----	-----

S 8	S 9
-----	-----

1912

dig pits, 18x18x12 ins. in each sec., 5  $\frac{1}{2}$  ft. dist., and  
raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, gently rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate.

Subsoil, clay.

No timber.

Undergrowth, shad scale, sage brush and grass.

Dense undergrowth on 80.00 chs.

40.00

S. 89° 54' E., on a random line

Bet. secs. 4 and 9, and 10, and 11, and 12, and 13, and 14.

Set temp.  $\frac{1}{4}$  sec. cor.

79.84

Intersect N. and S. line, 9 lks. S. of the cor. or secs.

3-4-9 and 10, and 11, and 12, and 13, and 14, and 15, and 16.

Thence I. run N., over land, and through undergrowth.

N. 89° 58' W., on a true line, through undergrowth, back to

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

Bet. secs. 4 and 9.

Over gently rolling, bench land, through scattering timber,  
and dense undergrowth.

39.92

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the  
ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked $\frac{1}{4} S 4$ 

S 9

1912

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and  
raise a mound of earth,  $3\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.July 27: At this cor. I set off  $19^{\circ}11'N.$ , on the decl.  
and right, 7 pm. L.S.T., and when it reached the  
arc, and at Oh. 6m., p.m., l.m.t., observe the sun on the  
meridian, the resulting lat. is  $40^{\circ}40'N.$ 

57.40

Wash, 30 lks. wide, 4 ft. deep, course NW.

76.47

Road, bears NE. and S.

79.84

The cor. of secs. 4-5-8 and 9.

Land, gently rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate.

Subsoil, clay.

Timber, cedar.

Undergrowth, shadscale, sage brush and grass.

Dense undergrowth on 79.84 chs.

N.  $0^{\circ}01'W.$ , on a random line

Bet. secs. 4 and 5.

40.00

Set temp.  $\frac{1}{4}$  sec. cor.

80.24

Intersect N. bdy. of the Tp. 2 lks. W. of the cor. of secs.

4-5-32 and 33, heretofore described.

Thence I run N. 8. and S. 8. until I intersect

South, bet. secs. 4 and 5., on a true line.

Over gently rolling bench land, through dense undergrowth.

3.50

Read, Low to Quincy Spring, bears NE. and SW.

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

- 40.24 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

4	6	5	8	4
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1912

Dig pit, 18x18x12 ins., N. and S. of post, 3 ft. dist. and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

- 56.40 Wash; 40 ft. wide, 6 ft. deep, course SW.

- 89.24 The cor. of new, 4-0-0 and 9-

long, rolling land,

clay and sandy loam, 24 ins. deep, subsoil.

Soil, clay.

No timber.

Coniferous, sage brush, and grass.

Leave undergrowth on 10.24 ac.

July 27, 1912.

C. G. FRANKLIN.

July 27: At 8:30 a.m., I set off 40°30' W., on the 1st. leg, 1500 ft., on the back, or, not determine a meridian with the solar at the cor. of secrs. 31 and 32, on the S. border of the sp., heretofore described.

Thence, I ran

5.6663° W., between 31 and 32.

Across overrolling land, through scattering timber, and dense undergrowth.

- 26.60 Edge, born NW. and SW.

Then, I ran

- 52.60 Hollow, 70 ft. deep, course NW.

Then, I ran

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$ S 31	S 32
--------------------	------

1912

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

55.60 Road, Clive to Quincy Spring, bears NW. and SE.

64.50 Same road, bears NE. and SW.

77.00 Spur, projects NW.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 29-30-31 and 32, with brass cap, marked

T 2 S R 10 W

S 30	S 29
S 31	S 32

1912

from which

A cedar, 4 ins. diam., bears S. 22° E., 43 lks. dist., marked T 2 S R 10 W S 32 BT.

A cedar, 6 ins. diam., bears S. 12° W., 100 lks. dist., marked T 2 S R 10 W S 31 BT.

A cedar, 8 ins. diam., bears N. 75° W., 224 lks. dist., marked T 2 S R 10 W S 30 BT.

No other trees available, dig pits, 18x18x12 ins. in each sec, 5 $\frac{1}{2}$  ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land rolling,

Soil, clay and sandy loam, with loose rock, 24 ins. deep, 2nd and 3rd rate.

Subsoil clay and loose rock.

Timber, cedar.

Undergrowth, sage brush, shadscale and grass.

Dense undergrowth on 80.00 chs.

July 27: At this cor. I set off 19° 11' N., on the decl. arc, and at 0H.6m., P.m., 1.m.t., observe the sun on the meridian

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

the resulting lat. is  $40^{\circ}36'30''$  N.,S.  $89^{\circ}54'$  E., on a random line

Bet. secs. 29 and 32.

40.00

Set temp.  $\frac{1}{4}$  sec. cor.

79.88

Intersect N. and S. line, 7 lks. N. of the cor. of secs. 28-29-32 and 33.

Thence I run

N.  $89^{\circ}51'$  W., on a true line

Bet. secs. 29 and 32.

Ascend over rolling land, through scattering timber and dense undergrowth.

19.50

Spur, projects NW.

Descend.

32.20

Hollow, 100 ft. deep, course NW.

Ascend.

39.94

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground for the  $\frac{1}{4}$  sec. cor., with brass cap, marked $\frac{1}{4}$  S 29

S 32

1912

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3  $\frac{1}{2}$  ft. base, 1  $\frac{1}{2}$  ft. high, N. of cor.

75.00

Road, Clive to Quincy Springs, bears NE. and SW.

77.50

Spur, projects NW. Descend.

79.88

The cor. of secs. 29-30-31 and 32.

Land, rolling.

Soil, clay and sandy loam, with loose rock, 2nd and 3rd rate.

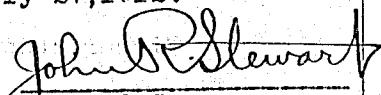
Subsoil, clay.

Timber, cedar,

Undergrowth, sage brush and grass.

Dense undergrowth on 79.88 chs.

July 27, 1912.


  
John D. Stewart  
U.S. Surveyor

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS	
	July 29: At 8h.6m., a.m., l.m.t., I set off $40^{\circ}36'30''$ N. on the lat.arc, $18^{\circ}46'$ N. on the decl.arc, and determine a meridian with the solar at the cor.of secs. 29-30-31 32.
	Thence I run N. $89^{\circ}54'W.$ , on a random line Bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
84.88	Intersect W.bdy. of the Tp. 5 lks. N.of the cor.of secs. 25-30-31 and 36, heretofore described.
	Thence I run S. $89^{\circ}56'E.$ , on a true line Bet. secs. 30 and 31.
	Descend over rolling land, through scattering timber and dense undergrowth.
5.80	Hollow, 200 ft. deep, course NW.
	Ascend.
44 88	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec.cor., with brass cap, marked $\frac{1}{4} S 30$
	<hr/>
	S 31
	1912
	dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high. N.of cor. Ridge, bears NW. and SE.
57.80	Descend.
69.00	Hollow, 75 ft. deep, course NE.
	Ascend.
84.88	The cor.of secs. 29-30-31 and 32.
	Land, rolling.
	Soil, clay and sandy loam with loose rock, 2nd and 3rd rate.
	Subsoil, clay.
	Undergrowth, sage brush and grass.
	Timber, cedar.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS

Dense undergrowth, on 84.88 chs.

July 29, 1912.

Claude L. Hart

U.S. Transitman.

July 29: At 8h. 6m., a.m., l.m.t., I set off  $40^{\circ}36'30''N.$ , on the lat.arc,  $18^{\circ}46'W.$ , on the decl.arc, and determine a meridian with the solar at the cor.of secs. 29-30-31 and 32.

Thence I run  $N.0^{\circ}02'W.$ , bet.secs. 29 and 30.

Descend over rolling land, through scattering timber and dense undergrowth.

3.00 Leave scattering timber, bears E. and W.  
40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked

$\frac{1}{4}$ S 30	S 29
--------------------	------

1912

dig pits,  $18 \times 18 \times 12$  ins. N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

56.40 Hollow, 100 ft. deep, course NW.

Ascend.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor.of secs. 19-20-29 and 30, with brass cap, marked

T 2 S R 10 W

S 19	S 20
------	------

S 30	S 29
------	------

1912

dig pits,  $18 \times 18 \times 2$  ins. in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

## CHAINS

- Soil, clay and sandy loam with loose rock, 24 ins. deep,  
2nd and 3rd rate.
- Subsoil, clay.
- Timber, cedar,
- Undergrowth, sage brush and grass.
- Dense undergrowth on 80 .00 chs.
- 
- S. 89° 51' E., on a random line N.E., N.W., S.E., S.W.  
Bet. secs. 20 and 29. 1912
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor. 1912
- 79.90 Intersect N. and S. line, 2 lks. S. of the cor. of secs.  
20-21-28 and 29. 1912
- July 29: At this cor. I set off 18° 43' N., on the deci.  
arc, and at 0H. 6m., p.m., l.m.t., observe the sun on the  
meridian, the resulting lat. is 40° 37' N.
- Thence I run N. 89° 52' E., through the ridge, 00.00  
N. 89° 52' W., on a true line N.E., N.W., S.E., S.W.  
Bet. secs. 20 and 29.
- Descend over rolling land, through heavy timber.
- 14.80 Hollow, 50 ft. deep, course SW.
- Ascend.
- 30.00 Leave heavy timber, bears N. and S. Enter scattering  
timber and dense undergrowth,
- 39.95 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the  
ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked
- $\frac{1}{4}$  S 20 1912
- 
- S 29 1912
- dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and  
raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.
- 46.50 Road, Clive to Quincy Spring, bears SW. and NE.
- 57.60 Ridge, bears N. and S.
- Descend.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS	
79.90	The cor. of secs. 19-20-29 and 30. rolling. Land, rolling. Soil, clay and sandy loam with loose rock, 24 ins. deep, 2nd and 3rd rate. Subsoil, clay. Timber, cedar. Undergrowth, sage brush and grass. Heavily timbered land on 30.00 chs.
40.00	N. 89° 56' W., on a random line, .2500, 100 ft. N. Bet. secs. 19 and 30.
84.75	Set temp. $\frac{1}{4}$ sec. cor. Intersect the W. bdy. of the Tp. 5 lks. N. of the cor. of secs. 19-24-25 and 30, heretofore described. Thence I run S. 89° 58' E., on a true line Bet. secs. 19 and 30. Ascend over rolling land through heavy timber.
8.35	Spur, projects SW. Descend.
30.65	Hollow, 100 ft. deep, course SW. Leave heavy timber brs. N. & S. Ascend. Enter scattering timber and dense undergrowth.
39.70	Spur, projects NW. Descend.
44.75	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap, marked $\frac{1}{4} S 19$
45.90	S 30 1912 dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Same hollow, course NW. Ascend.

## SUBDIVISIONS OF T.2 S., R.10 W.

## CHAINS

48.65	Spur, projects S. Descend.
52.15	Hollow, 75 ft. deep, course SW. Ascend.
64.00	Spur, projects SW. Descend.
72.50	Hollow, 50 ft. deep, course SW. Ascend.
/	The cor. of secs. 19-20-29 and 30. Land, rolling. Soil, clay and sandy loam with loose rock, 24 ins. deep, 2nd and 3rd rate. Subsoil, clay. Timber, cedar. Undergrowth, sage brush and grass. Heavily timbered land on 30.65 chs.
84.75	

July 29, 1911.


  
John D. Stewart  
U.S. Surveyor.

July 29: At the cor. of secs. 19-20-29 and 30, I set off  $18^{\circ}43'N.$  on the decl. arc, and at 0h. 6m., p.m., l.m.t., observe the sun on the meridian; the resulting lat. is  $40^{\circ}37'N.$

Thence I run

N.  $0^{\circ}02'W.$ , bet. secs. 19 and 20.

Ascend over rolling land, through scattering timber and dense undergrowth.

.70

Spur, projects W.

Descend.

40.00

Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

- dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
- 43.00 Hollow, 75 ft. deep, course SW.
- Ascend. Leave scattering timber, bears NE. and SW.
- 47.50 Spur, projects NE.
- Descend.
- 55.00 Enter gently rolling bench land, bears NE. and SW.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 17-18-19 and 20, with brass cap, marked

T 2 S R 10 W

S 18	S 17
S 19	S 20

1912

over built, and the 18-19-20 line intersected, and the 17-21 line digipits, 18x18x12 ins. in each sec., 5½ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. ✓

Land rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate.

Subsoil, clay.

Timber, cedar.

Undergrowth, sage brush and grass.

Dense undergrowth on 80.00 chs.

S. 89°52' E., on a random line

Bet. secs. 17 and 20.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.92 Intersect the N. and S. line, at the cor. of secs. 16-17-20 and 21. ✓

Thence I run

N. 89°52' W., on a true line

Bet. secs. 17 and 20.

Ascend over rolling land, through heavy timber.

4.30 Spur, projects NW.

Descend.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS

- 20.00 Leave heavy timber, bears N. and S. Enter scattering timber and dense undergrowth.  
 32.00 Enter gently rolling bench land, bears NE. and SW.  
 34.75 Road, Clive to Quincy Spring, bears NE. and SW.  
 39.96 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cup, marked

 $\frac{1}{4}$  S 17

S 20

1912

- dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.  
 79.92 The cor. of secs. 17-18-19 and 20.  
 Land, rolling.  
 Soil, clay and sandy loam, 24 ins. deep, 2nd rate.  
 Subsoil, clay.  
 Timber, cedar.  
 Undergrowth, sage brush and grass.  
 Heavily timbered land on 20.00 chs.

July 29, 1912.

Charles L. West.

U.S. Transitman.

July 30: At 8h. 6m., a.m., l.m.t., I set off  $40^{\circ}38'N.$ , on the lat. arc,  $18^{\circ}32'W.$ , on the decl. arc, and determine a meridian with the solar at the cor. of secs. 17-18-19 and 20.

Thence I run

N.  $89^{\circ}58'W.$ , on a random line

Bet. secs. 18 and 19.

40.00

Set temp.  $\frac{1}{4}$  sec. cor.

84.62

Intersect W. bdy. of Tp. 2 lks. S. of the cor. of secs. 13-18-

## SUBDIVISIONS OF T. 2 S., R. 10 W.

G HAINS

19 and 24, heretofore described.

Thence I run S. 89° 57' E., on a true line

Bet. secs. 18 and 19.

Ascend over rolling bench land, through scattering timber and dense undergrowth.

5.00 Leave bench land, bears NW. and SE. Enter rolling and mountainous land.

12.75 Spur, projects NE.

Descend.

17.50 Hollow, 50 ft. deep, course NE.

Ascend.

20.00 Leave scattering timber, bears NE. and SW.

37.50 Spur, projects NW.

Descend.

44.62 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 18

---

S 19

1912

dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high. N. of cor.

49.00 Feet of descent, enter gently rolling bench land, bears NW. and SE.

66.10 Wood road, bears N. and S.

84.62 The cor. of secs. 17-18-19 and 20.

Land rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate, on bench land, rocky clay loam, 24 ins. deep, 3rd rate, on the rest. Subsoil, clay.

Undergrowth, sage brush and grass.

Timber, cedars.

Dense undergrowth on 84.62 chs.

July 30, 1912.

John R. Stewart  
U.S. SURVEYOR.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

## GRAINS

- July 30: At 8h. 6m., a.m., l.m.t., I set off  $40^{\circ}38'N.$ , on the lat.arc,  $18^{\circ}32'N.$ , on the decl.arc, and determine a meridian with the solar at the cor. of secs. 17-18-19 and 20.  
 Thence I run N.  $0^{\circ}02'W.$ , bet. secs. 17 and 18.
- Over gently rolling bench land, through dense undergrowth. Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked
- |                    |      |
|--------------------|------|
| $\frac{1}{4}$ S 18 | S 17 |
|--------------------|------|
1912. dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Wash, 75 lks. wide, 5 ft. deep, course NW.
- Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 7-8-17 and 18, with brass cap, marked
- |              |  |
|--------------|--|
| T 2 S R 10 W |  |
| S 7   S 8    |  |
| -----        |  |
| S 18   S 17  |  |
1912. dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Land, gently rolling.
- Soil, clay and sandy loam, 24 ins. deep, 2nd rate.
- Subsoil, clay.
- No timber.
- Undergrowth, sage brush and grass.
- Dense undergrowth on 80.00 chs.
- S.  $89^{\circ}52'E.$ , on a random line
- Bet. secs. 8 and 17.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.

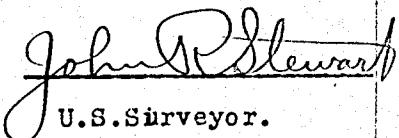
## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS	
79.94	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 8-9-16 and 17. Thence I run N. $89^{\circ}54'W.$ , on a true line Bet. secs. 8 and 17. Over gently rolling bench land, through dense undergrowth.
6.65	Read, Clive to Quincy Spring, bears NW. and SE.
39.97	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap, marked
	4'S 8
	<hr/> S 17
	1912
	dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
66.40	Wash, 50 lks. wide, 10 ft. deep, course NW.
76.50	Wash, 20 lks. wide, 6 ft. deep, course NW.
79.94	The cor. of secs. 7-8-17 and 18. Land, rolling bench land. Soil, clay and sandy loam, 24 ins. deep, 2nd rate. Subsoil, clay. No timber. Undergrowth, sage brush and grass. Dense undergrowth on 79.94 chs.
	July 30, 1912.
	<u>Claude L. West</u>
	U.S. Transitman.
	<hr/>
	N. $89^{\circ}57'W.$ , on a random line Bet. secs. 7 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

- 84.48 Intersect W.bdy.of Tp., at the cor.of secs. 7-12-13 and 18.  
heretofore described. Thence I run  
S.89°57'E., on a true line  
Bet,secs.7 and 18.  
Over gently rolling bench land, through dense undergrowth.  
1.35 Road, bears NE. and SW.  
44.48 Set an iron post, 3 ft.long, 1 in.in diam., 26 ins.in the  
ground, for the  $\frac{1}{4}$  sec.cor., with brass cap, marked  
 $\frac{1}{4} S 7$
- 
- S 18  
1912  
dig pits, 18x18x12 ins., E.and W.of post, 3 ft.dist., and  
raise a mpund of earth; 3 $\frac{1}{2}$  ft.base, 1 $\frac{1}{2}$  ft.high, N.of cor.  
52.00 Wash, 70 lks.wide, 5 ft.deep, course NW.  
75.30 Wash, 20 lks.wide, 3 ft.deep, course NW.  
80.50 Wash, 20 lks.wide, 4 ft.deep, course NW.  
84.48 The cor.of secs.7-8-17 and 18:  
Land, rolling bench land.  
Soil, clay and sandy loam, 24 ins.deep, 2nd rate.  
Subsoil, clay.  
No timber.  
Undergrowth, sage brush shad scale and grass.  
Dense undergrowth on 84.48 chs.
- July 30: At this cor.I set off 18°29'N.on the decl.arc,  
and at Oh.6m., p.m., l.m.t., observe the sun on the  
meridian, the resulting lat.is 40°39'N.



John R. Stewart  
U.S. Surveyor.

July 30, 1912.

July 30: At the cor.of secs.7-8-17 and 18, I set off  
18°29'N., on the decl.arc, and at Oh.6m., p.m., l.m.t.,

## SUBDIVISIONS OF T.2 S., R.10 W.

CHAINS

observe the sun on the meridian, the resulting lat. is  
40°39'N.

Thence I run

N.0°02'W., bet. secs. 7 and 8.

Over gently rolling land, through dense undergrowth.

15.00 Wash, 50 lks. wide, 10 ft. deep, coarse NW.

40.00 Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the  $\frac{1}{4}$  sec. cor., with brass cap, marked

$\frac{1}{4}$  S 7 | S 8

1912 ✓

dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

46.60 Road, bears NE. and SW.

77.30 Wash, 75 lks. wide, 10 ft. deep, coarse NW.

80.00 Set an iron post, 3 ft. long, 2 ins. in diam., 24 ins. in the ground, for the cor. of secs. 5-6-7 and 8, with brass cap, marked

T 2 S R 10 W

S 6 | S 5

—+—  
S 7 | S 8

1912

dig pits, 18x18x12 ins. in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, gently rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate.

Subsoil, clay.

No timber.

Undergrowth, shad scale, sage brush and grass.

Dense undergrowth on 80.00 chs.

S.89°54'E., on a random line

Bet. secs. 5 and 8.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHAINS	
79.98	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 4-5-8 and 9. Thence I run N. $89^{\circ}52'W.$ , on a true line Bet. secs. 5 and 8. Over gently rolling land, through scattering timber and dense undergrowth.
35.80	Wash, 80 lks. wide, 4 ft. deep, course NW.
39.99	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins. in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap, marked <u>S 5</u> .
	<u>S 8</u>
	1912
	dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
46.30	Road, Low to Quincy Spring, bears NE. and SW.
68.90	Road, Clive to Quincy Spring, bears NW. and SE.
79.98	The cor. of secs. 5-6-7 and 8. Land, rolling. Soil, clay and sandy loam, 24 ins. deep, 2nd rate. Subsoil, clay. Timber, cedar. Undergrowth, shad scale, sage brush and grass. Dense undergrowth on '79.98 chs.'

July 30, 1912.

U.S. Transitman.

Claude L. East

## SUBDIVISIONS OF T2 S., R.10 W.

CHAINS

N.  $89^{\circ}57'W.$ , on a random line,  
 Bet. secs. 6 and 7.  
 Set temp.  $\frac{1}{2}$  sec.cor.  
 84.36 Intersect the W.bdy. of the Tp. 2 lks.S. of the cor. of  
 secs. 1-6-7 and 12, heretofore described.  
 Thence I run  
 S.  $89^{\circ}56'E.$ , on a true line  
 Bet. secs. 6 and 7.  
 Over gently rolling benchland through dense undergrowth.  
 4.20 Wash, 40 lks. wide, 6 ft. deep, course NW.  
 7.50 Enter scattering timber bears N. and S.  
 20.50 Wash, 50 lks. wide, 6 ft. deep, course NW.  
 44.36 Set an iron post; 3 ft. long, 1 in. in diam., 26 ins. in the  
 ground, for the  $\frac{1}{2}$  sec.cor., with brass cap, marked

 $\frac{1}{2} S 6$ 

S 7

1912

from which

A cedar, 8 ins. diam., bears N.  $78^{\circ}E.$ , 214 lks. dist.,  
 marked  $\frac{1}{2} S 6$  BT:

A cedar, 10 ins. diam., bears S.  $25^{\circ}E.$ , 35 lks. dist.,  
 marked  $\frac{1}{2} S 7$  BT.

53.20 Wash, 60 lks. wide, 10 ft. deep, course NW.

79.20 Wash, 70 lks. wide, 10 ft. deep, course NW.

84.36 The cor. of secs. 5-6-7 and 8.

Land, gently rolling.

Soil, clay and sandy loam, 24 ins. deep, 2nd rate.

Subsoil, clay.

Undergrowth, shad scale, sage brush and grass.

Timber, cedar.

Dense undergrowth on 84.36 chs.

## SUBDIVISIONS OF T. 2 S., R. 10 W.

CHEAINS	
	Land subject to dry, watered by N. 0°02' W., on a random line Bet. secs. 5 and 6.
40.00	Set temp. $\frac{1}{4}$ sec. cor. in Twp. 2 lks. E. of the cor. of secs. 80.14 Intersect N. bdy. of the Tp. 2 lks. E. of the cor. of secs. 5-6-3 land 32, heretofore described. Thence I run S. 0°03' E., on a true line Bet. secs. 5 and 6.
7.30	Over gently rolling land through dense undergrowth. Sand ridge, 30 ft. high, bears E. and W.
18.50	Enter scattering timber, bears E. and W.
21.00	Leave scattering timber, bears NW. and SE.
40.14	Set an iron post, 3 ft. long, 1 in. in diam., 26 ins, in the ground, for the $\frac{1}{4}$ sec. cor., with brass cap, marked
	$\frac{1}{4}$ S 6   S 5 1912
68.15	dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
80.14	Road, Clive to Quincy Spring, bears NW. and SE. The cor. of secs. 5-6-7 and 8. Land, rolling. Soil, clay and sandy loam, 24 ins. deep, 2nd rate. Subsoil, clay. Timber, cedar. Undergrowth, sage brush, shad scale and grass. Dense undergrowth on 80.14 chs.
	July 30, 1912.
	<i>John P. Stewart</i> U.S. Surveyor.

SUBDIVISIONS OF T.2 S., R.10 W.

GENERAL DESCRIPTION OF T.2 S., R.10 W.

This Tp. contains mostly mountainous land, with Cedar Ridge, a mountain averaging about 1500 ft. in height, running N. and S. almost through the center. The NW. cor. of the Tp. and the eastern portions of secs. 13-24-25 and 36 are gently rolling bench land and suitable for agricultural purposes.

The soil ranges from a sandy and clay loam on the rolling portion to clay with loose rock on the mountainous part.

The whole Tp. is suitable for grazing purposes, as there is an abundant growth of rich and nutritious grasses.

Most of the Tp. is covered with either a heavy or scattering growth of cedars intermingled with a few pinon pine.

There is no water in any portion of this Tp. Redland Springs however lies just over the E. bdy. in T.2 S., R.9 W.

There are no settlers located in this Tp.

There were no indications of coal, oil, or mineral found in any portion.

One main road runs through the western portion which leads from Clive, to Quincy Spring which is located in T.3 S., R.10 W., and several wood roads leading up into the foot hills.

John D. Stewart  
U.S. Surveyor.

Claude L. West  
U.S. Transitman.

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**Page**

BOOK A-400

## CERTIFICATE OF ASSISTANTS.

We, the undersigned, hereby certify upon honor that we assisted, to the best of our skill and ability,  
....., U. S. Surveyor, during the periods and in the capacities  
stated opposite our several signatures, in surveying all those parts or portions of .....

For certificate of assistants see book "L" T.3 S.: R.6 W.

of the ..... Meridian, in the State of

which are represented in the foregoing field notes as having been executed by him, and under his direction; and that said survey has been, in all respects, to the best of our knowledge and belief, well and faithfully executed.

Subscribed and certified to before me on the dates of the final service as shown above.

# FINAL OATH OF UNITED STATES SURVEYOR.

I, \_\_\_\_\_, U. S. Surveyor, do solemnly swear that, in pursuance of special instructions received from the U. S. Surveyor General for \_\_\_\_\_ bearing date of the \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_\_, I have well, faithfully, and truly, in my own proper person, and in strict conformity with said instructions, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_

For final oaths of U.S. Surveyor and Transitman see book "L" T.2 S.

E. 36 N.

of the

Meridian, in the State of \_\_\_\_\_, which are represented in the foregoing field notes as having been executed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the U. S. Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

U. S. Surveyor.

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 191\_\_\_\_\_ }

SEAL

## APPROVAL.

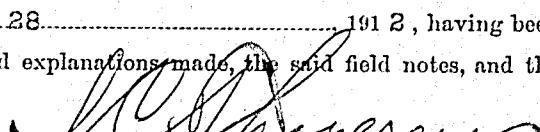
OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, December 5, 1914.

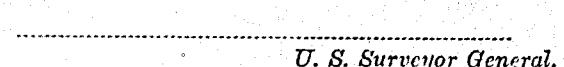
The foregoing field notes of the survey of the Subdivisional lines of Township No. 2 South, Range No. 10 West of the Salt Lake Base and Meridian, Utah,

executed by John R. Stewart and Claude L. Heist

under their special instructions dated May 28, 1912, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

  
M. C. Moorehead  
U. S. Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

  
U. S. Surveyor General.